

AEDC-TR-65-69

ARCHIVE COPY
DO NOT LOAN



STRESS WAVES IN COMPOSITE LAMINATES

This document has been approved for public release
its distribution is unlimited. *Ref DDC/Tr-A-155*
AD A011100
24 Jul 1975

Ray Kinslow

ARO, Inc.

June 1965

PROPERTY OF U. S. AIR FORCE
AEDC LIBRARY
AF 40(600)1000

**VON KÁRMÁN GAS DYNAMICS FACILITY
ARNOLD ENGINEERING DEVELOPMENT CENTER
AIR FORCE SYSTEMS COMMAND
ARNOLD AIR FORCE STATION, TENNESSEE**

AEDC TECHNICAL LIBRARY
S 0720 00031 0328

NOTICES

When U. S. Government drawings, specifications, or other data are used for any purpose other than a definitely related Government procurement operation, the Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise, or in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

Qualified users may obtain copies of this report from the Defense Documentation Center.

References to named commercial products in this report are not to be considered in any sense as an endorsement of the product by the United States Air Force or the Government.

STRESS WAVES IN COMPOSITE LAMINATES

This document has been approved for public release
its distribution is unlimited. few DDC/TR 15/5
AD A011100
Dtd July 1975

Ray Kinslow*

ARO, Inc.

*Chairman, Department of Engineering Science, Tennessee
Technological University, Cookeville, Tennessee, and Consultant,
ARO, Inc.

FOREWORD

The work reported herein was sponsored by Arnold Engineering Development Center (AEDC), Air Force Systems Command (AFSC), Arnold Air Force Station, Tennessee under Program Element 62405364, Project 8871, Task 887101.

The results of research presented were obtained by ARO, Inc. (a subsidiary of Sverdrup and Parcel, Inc.), contract operator of AEDC under Contract AF 40(600)-1000. The research was conducted from May 1, 1964 to January 15, 1965 under ARO Project No. VS3502 and ARO Consultant Contract 65-2-VKF. The report was submitted by the author on March 8, 1965.

The author is indebted to P. L. Clemens, Assistant Manager, Aerophysics Branch, von Kármán Gas Dynamics Facility, for his valuable assistance and suggestions in the preparation of this report.

This report has been reviewed and is approved.

Darreld K. Calkins
Major, USAF
AF Representative, VKF
DCS/Test

Jean A. Jack
Colonel, USAF
DCS/Test

ABSTRACT

Fractures caused by stress waves resulting from hypervelocity impact are sometimes reduced, and at other times are increased, by the use of laminated materials. An analysis of some of the parameters which affect the ability of a laminated structure to resist fracture following impact has been conducted. It is shown that there are multiple reflections from the interfaces bounding any layer of material. The amplitudes of these waves attenuate very rapidly, but because their transmitted components may combine in phase with other waves, they sometimes contribute substantially to the total stress produced. It is shown that these combined waves may result in a stress much greater in the laminated material than would have been produced by the same impact on a solid target of either of the materials used; however, under other conditions, the laminate may be employed to reduce the stress to a very small value. Pressure pulse amplitudes in materials having impedance mismatch values ranging from 0.1 to 10.0 and having as many as thirty laminations are presented in both graphical and tabular form.

CONTENTS

	<u>Page</u>
ABSTRACT	iii
NOMENCLATURE	vii
I. INTRODUCTION	1
II. ASSUMPTIONS AND LIMITATIONS	1
III. PULSE BEHAVIOR AT AN INTERFACE	3
IV. MULTIPLE LAMINATIONS	6
V. EFFECT OF PULSE LENGTH AND MATERIAL THICKNESS	9
VI. SECONDARY PRESSURE WAVES	10
VII. FURTHER EFFECTS OF LAMINATION THICKNESS	11
VIII. DISCUSSION	14
REFERENCES	14

ILLUSTRATIONS

Figure

1. Fracture in a Solid Target	17
2. Fracture in a Laminated Target	17
3. Mechanics of Pressure Pulse at an Interface	18
4. Transmitted and Reflected Pulse Amplitudes as a Function of Impedance Mismatch	19
5. Fractures in Plastic Blocks (Produced by Identical Blasting Caps)	20
6. Fractures in Plastic Cylinders (Produced by Identical Blasting Caps)	21
7. Primary Pulse Amplitude	22
8. Effect of Impedance Mismatch upon Primary Pulse Attenuation	24
9. Multiple Reflections within a Lamination	28
10. Transmitted Waves in Water Produced by Multiple Reflections in Aluminum	29
11. Multiple Pressure Waves in Water	30
12. Effect of Pulse Length upon the Transmitted Wave in Water	31

<u>Figure</u>	<u>Page</u>
13. Effect of Pulse Profile upon the Transmitted Wave in Water	32
14. Primary and Secondary Pressure Waves in Composite Laminates	33
15. Possible Combinations of Primary and Secondary Pressure Waves	34
16. Conditions for Maximum Amplitude of Secondary Pressure Waves	35
17. Secondary Pulse Amplitude	36
18. Effect of Impedance Mismatch upon Amplitude of Secondary Pulses	38
19. Lamination Number at which Pulse Amplitude is a Maximum	39
20. Sum of Primary and Secondary Pulse Amplitudes	40
21. Effect of Impedance Mismatch upon Sum of Primary and Secondary Pulse Amplitudes	42
22. Effect of Pulse Length upon Magnitude of Stress Developed by Reflected Wave.	43

TABLES

I. Properties of Some Typical Materials.	45
II. Impedance Mismatch for Various Combinations of Materials	46

APPENDIX

I. Values of Pulse Amplitudes in Laminated Material.	47
--	----

NOMENCLATURE

A, B, C,	Amplitudes of reflected waves
AA, BB, CC,	Transmitted components of A, B, C,
B', B''	Amplitudes of secondary waves
c	Velocity of elastic waves
E	Young's modulus
e	Base of natural logarithms
K	Impedance mismatch
N	Lamination or interface number
P	Amplitude of primary pressure wave
T	Time
t	Lamination thickness
V	Particle velocity
ν	Poisson's ratio
ρ	Material density
λ	Wave or pulse length

SUBSCRIPTS

A	Aluminum
N	Lamination or interface number
o	Original wave or pulse
r	Reflected component
t	Transmitted component
W	Water

SECTION I INTRODUCTION

It has been demonstrated that fractures caused by stress waves induced by hypervelocity impact can, in many cases, be reduced by employing laminated targets (Ref. 1). Figure 1 shows a fracture near the rear surface of a solid copper target caused by reflected stress waves. Figure 2 shows the absence of such fractures in a copper-solder laminated target of lesser thickness subjected to a slightly more severe impact. Solid copper targets one-inch thick have spalled near the rear surface when impacted by 3/16-in. -diam aluminum projectiles having velocities as low as 17,500 ft/sec, whereas laminated targets (Fig. 2) 0.75-in. thick have failed to spall when impacted with identical projectiles having velocities of 21,300 ft/sec.

The results of such experimental work have served to alert the design engineer to the possibility of reducing the probability of damage by the use of laminates. It is realized, however, that it is impossible to test all, or even a small percentage of the possible laminates (Ref. 2).

It is just as important that the design engineer realize that the use of laminates does not necessarily reduce the probability of damage but may in some cases result in an increase in damage to the structure. For example, a 30-cal by 0.15-in. Lexan® (a polycarbonate resin) projectile fired at a velocity of 21,100 fps destroyed a 2.25-in.-thick laminated plastic target, but an identical projectile fired at 21,800 fps into a 2.0-in.-thick solid target of the same plastic left the target intact (Ref. 3). It has been shown that an aluminum-copper laminate may sustain greater damage than a solid target of aluminum, but that an aluminum-polyethylene laminate would realize less damage (Ref. 4) when impacted at the same velocity by an identical projectile.

This report deals primarily with a theoretical study of the transmission and reflection of stress waves in composite laminates and an analysis of some of the parameters which may affect the ability of a structure to resist fracture induced by hypervelocity impact. It is hoped that this study will answer some of the questions as to how and why laminates act as they do when subjected to impact.

SECTION II ASSUMPTIONS AND LIMITATIONS

As in most theoretical investigations, it is necessary to make certain assumptions and to specify some limitations. This may be done

either to simplify the mathematical derivations or because of a lack of information or knowledge in certain areas. Both of these reasons have prompted the following assumptions:

1. This report is limited to the action of elastic waves in the targets. When a solid body is impacted by a hypervelocity projectile, a crater is formed which expands very rapidly at first. As the velocity of crater formation decreases, a shock wave is detached from its surface but soon decays into a spherical elastic wave which continues to travel through the target (Ref. 5). The relative distance covered by the plastic shock wave is small, assuming a thick target, and fractures produced within this distance consist mainly of deformation of the target and ejection of target material by forces other than those attributed to the shock wave.
2. Closely related to the above is the assumption that the velocity of the elastic wave is a constant through any given material and is specified by the relation

$$c = \left[\frac{E(1-\nu)}{\rho(1+\nu)(1-2\nu)} \right]^{1/2} \quad (1)$$

where c is the wave velocity, E is Young's modulus, ν is Poisson's ratio, and ρ is the material density. This assumption is made for both incident and reflected waves. Since the reflected wave will traverse material through which the incident wave has recently passed, it is acknowledged that the density and elastic constants may change slightly, perhaps because of the heating of the material. (It has been shown that the velocity of the reflected wave in Lucite® (acrylic resin) is about 80 percent of that of the incident wave (Ref. 3)). The reason for the assumption of constant velocity of the elastic wave is that, at present, the changes in material properties and temperatures are not known for the various materials.

3. Proceeding from the above, it is further assumed that the value of the product, ρc , called the "characteristic impedance" of the medium, remains constant.
4. The primary purpose of this study is to compare the stresses produced in laminates with the stresses produced in targets of a homogeneous material. This comparison can be made by neglecting the stress attenuation attributed to distance. Except as noted, this attenuation is neglected in this report. When the attenuation of the stress is not neglected, it is assumed that the rate of attenuation of stress amplitude at the wave front as a function of the distance from its origin is the same

in both homogeneous and laminated material, the amplitude of the spherical pulse being inversely proportional to the distance (Ref. 6).

5. Only the stresses along the axis perpendicular to the lamination interfaces will be considered. Unless the lateral dimensions of the target are very small, the maximum stress will be produced on this axis.
6. Energy losses are neglected.

SECTION III PULSE BEHAVIOR AT AN INTERFACE

An abrupt change in the physical properties of a material will result in the modification of a pressure pulse as it encounters this change. In general, a portion of the pulse will be transmitted, and a portion will be reflected.

The relations which describe the modification of a pulse are based upon the boundary conditions of continuity of pressure and continuity of particle velocity across the interface.

The equations which express these conditions may be written as

$$P_o + P_r = P_t \quad (2)$$

and

$$V_o = V_r = V_t \quad (3)$$

where P is pressure, V is particle velocity, and o , r , and t refer to the original pulse, the reflected pulse, and the transmitted pulse, respectively. The expression for the conservation of momentum at the pulse front is (Ref. 7)

$$P = \rho c V \quad (4)$$

Substituting the value of V from this relation into Eq. (3) gives

$$\frac{P_o}{\rho_o c_o} + \frac{P_r}{\rho_r c_r} = \frac{P_t}{\rho_t c_t} \quad (5)$$

Making use of the relation

$$\rho_o c_o = \rho_r c_r \quad (\text{Assumption 3}) \quad (6)$$

gives

$$\frac{P_o - P_r}{\rho_o c_o} = \frac{P_t}{\rho_t c_t} \quad (7)$$

Solving Eqs. (2) and (7) simultaneously gives the following important relations:

$$P_t = \left[\frac{2\rho_t c_t}{\rho_t c_t + \rho_o c_o} \right] P_o \quad (8)$$

$$P_r = \left[\frac{\rho_t c_t - \rho_o c_o}{\rho_t c_t + \rho_o c_o} \right] P_o \quad (9)$$

These may be referred to as the "impedance mismatch" equations. Dividing Eq. (8) by Eq. (9) gives

$$\frac{P_t}{P_r} = \frac{2\rho_t c_t}{\rho_t c_t - \rho_o c_o} \quad (10)$$

These equations are somewhat simplified by letting

$$K = \frac{\rho_t c_t}{\rho_o c_o} \quad (11)$$

giving

$$P_t = \left[\frac{2K}{K + 1} \right] P_o \quad (12)$$

$$P_r = \left[\frac{K - 1}{K + 1} \right] P_o \quad (13)$$

and

$$\frac{P_t}{P_r} = \frac{2K}{K - 1} \quad (14)$$

Some conclusions which may be drawn from these relations are:

1. The sign of P_t will always be the same as P_o . That is, a compression wave will always be transmitted as a compression wave, and a release or tensile wave will always be transmitted as a tensile wave.
2. The sign of P_r may be the same as that of P_o or it may be different. If $K < 1$ a compression wave will be reflected as tensile wave, and a tensile wave will be reflected as a compression wave. If $K > 1$ the sign of the reflected wave will be the same as that of the incident wave.
3. If $K \approx 1$, $P_t \approx P_o$ and $P_r \approx 0$
4. When $K \ll 1$, $P_t \approx 0$ and $P_r \approx -P_o$
5. When $K \gg 1$, $P_t \approx 2P_o$ and $P_r \approx P_o$

Reference to Fig. 3 may aid in understanding the mechanics of the pulse at the interface. At the top of the figure are shown two distance-time plots of a step-function pulse having a length λ and an amplitude P_o . The one shown at the left is moving toward a region having a lower characteristic impedance than the first, $K < 1$, and at the right the pulse is

shown moving into a material of higher impedance, $K > 1$. Shown below the x-t plots are profiles of the pulse as it is transmitted and reflected at the interfaces. For the conditions of $K < 1$ assume that $K = 0.5$. The transmitted pulse will have an amplitude of $+0.667 P_0$, and the reflected component will have an amplitude of $-0.333 P_0$. Until complete transmission and reflection have occurred (which requires a time of λ/c_0), the reflected and incident pulses will interact as shown. In the case of $K > 1$, assume $K = 2.0$. The amplitudes of the transmitted and reflected pulses will be $1.333 P_0$ and $0.333 P_0$, respectively.

Stresses developed will depend not only upon the amplitude of the incident pulse, P_0 , and upon the properties of the materials, but also upon the profile of the pressure pulse. No attempt will be made to describe these profiles, but references will be made to their effects. Profiles of simple geometric forms will be used as illustrations.

Figure 4 gives the values of the transmitted and reflected pulse amplitudes as functions of K . In order that these values may be determined for various combinations of actual materials, Table I gives some average handbook values of density, wave velocity, and characteristic impedance of some common materials, and Table II gives impedance mismatch values of some possible material combinations.

The effect of the impedance mismatch, K , on the amplitude of the reflected pulse is shown qualitatively in Fig. 5. Identical shock waves were produced in the two Lucite blocks by explosives placed on one face of each block. The first was surrounded by air when the explosion occurred. As $K \approx 0$ from Lucite to air, the amplitude of the reflected pulse, $P_r = -P_0$. The spall near the rear surface was therefore produced by the reflection of the pressure pulse as a tensile wave. The explosion occurred on the face of the second block while it was floating on mercury. The value of K from Lucite to mercury is approximately six. The pulse in this case was reflected as a pressure wave having a value of about $0.72 P_0$. Since no tensile stresses were produced, the material did not fracture.

Although the relations for the amplitude of transmitted and reflected waves were derived only for normal incidence of pressure waves, the fractures in the Lucite cylinders shown in Fig. 6 further illustrate the point. These cylinders were surrounded by air, water, and mercury, respectively, when subjected to identical explosive forces at their bases.

SECTION IV

MULTIPLE LAMINATIONS

A laminated structure is made up of N interfaces joining $N + 1$ layers of material. The first layer of material in which the magnitude of the pressure pulse is P_0 is designated as $N = 0$. The structure may consist of any number of materials, but for the present it will be assumed that only two different materials are employed, because this is the most common type of laminate and is the only one for which it is practical to develop general relations. If more than two materials are used, it is usually more simple to compute the stress magnitudes layer by layer than to depend upon derived equations.

Consider the case in which the laminations $N = 0, 2, 4, 6 \dots$ have a characteristic impedance of $\rho_0 c_0$, and the alternate layers $N = 1, 3, 5, 7, \dots$ have an impedance of ρc . The amplitude of the pulse transmitted past the first interface has the value, according to Eq. (12), of

$$P_t \Big|_{N=1} = \left[\frac{2K}{K+1} \right] P_0$$

and the pressure reflected from this interface is (Eq. (13))

$$P_r \Big|_{N=1} = \left[\frac{K-1}{K+1} \right] P_0$$

if the value of $K = \rho c / \rho_0 c_0$. As the transmitted pulse reaches the second interface, a portion of it will be transmitted, and a part of it will be reflected. However, the value of the impedance mismatch at this interface is not K but has a value of $1/K$. The amplitude of the pulse transmitted across the second interface is, therefore,

$$P_t \Big|_{N=2} = \left[\frac{2}{K+1} \right] \left[\frac{2K}{K+1} \right] P_0 = \frac{4K}{(K+1)^2} P_0$$

and the amplitude of the reflected component is

$$P_r \Big|_{N=2} = \left[\frac{1-K}{1+K} \right] \left[\frac{2K}{K+1} \right] P_0 = \frac{2K(1-K)}{(K+1)^2} P_0$$

This process can be repeated again and again in order to determine the pulse amplitude at any point in the structure. The following relations, however, will eliminate much labor and will permit these values to be computed directly for any point in the structure.

The magnitude of the pulse transmitted past the N^{th} interface is given by the relation

$$P_t]_N = \left[\frac{2}{1+K} \right]^N K^{\frac{N}{2}} P_0 \quad (15)$$

if N is an even number and

$$P_t]_N = \left[\frac{2}{1+K} \right]^N K^{\frac{N+1}{2}} P_0 \quad (16)$$

if N is an odd number.

Plots of these values of pulse amplitudes in materials having impedance mismatch ranging from 0.1 to 10.0 and for thirty laminations (numbered zero through 29) are shown in Fig. 7. These will be referred to as primary pulses. A comparison of the effect of K on the pulse amplitude can be made by reference to Fig. 8.

The pulse reflected from the N^{th} interface has an amplitude of

$$P_r]_N = \left[\frac{1-K}{2} \right] \left[\frac{2}{1+K} \right]^N K^{\frac{N}{2}} P_0 \quad (17)$$

for even values of N , and

$$P_r]_N = \left[\frac{K-1}{2} \right] \left[\frac{2}{1+K} \right]^N K^{\frac{N-1}{2}} P_0 \quad (18)$$

for odd values of N .

There will be multiple reflections from the two interfaces bounding any layer of material. Figure 9 shows these reflections as A, B, C, --. A fraction of each reflected pulse will be transmitted through the bounding interfaces, and these are indicated as AA, BB, CC, --. The notations given in this figure replace the notations $P_t]_N$ by simply P_N and replace $P_r]_{N+1}$ by A_N . The values of these multiple reflected pulses are given by the following equations:

$$A_N = \pm \left(\frac{1-K}{1+K} \right) P_N \quad (19)$$

$$B_N = \left(\frac{1-K}{1+K} \right)^2 P_N \quad (20)$$

$$E_N = \pm \left(\frac{1-K}{1+K} \right)^5 P_N \quad (21)$$

The signs of the forward moving pulses (B, D, F, ---) will always be plus (+), and those of the backward moving ones (A, C, E, ---) will depend upon whether the bounding laminations have higher or lower impedance. If $K < 1$, the sign will be + if N is odd and minus (-) if N is even. If $K > 1$, the sign will be + if N is even and - if odd. The amplitude of the transmitted components, AA, BB, CC, . . . will be $2K/(K+1)$ or $2/(K+1)$ times the corresponding amplitudes of A, B, C, . . . , depending upon whether the transmission is into a material of higher or lower impedance.

These equations are very cumbersome to use. However, the values can be of importance to the design engineer, and therefore, values of P, A, B, C, D, E, AA, BB, CC, and DD have been computed for all values of N from 1 to 30 and for impedance mismatch values from 0.1 to 10.0. These are included in the Appendix. The value of P_o has been taken as unity; therefore, all values given in the Appendix must be multiplied by P_o .

The backward moving pulses AA, CC, EE, ---, form a rapidly converging series, the sum of which can be shown to be equal to the value of $-A_{N-1}$. Therefore, the sum

$$A_{N-1} + AA_N + CC_N + \dots = 0$$

The forward moving pulses from the Nth lamination (P_{N+1} , BB_N , DD_N , ---) also constitute a rapidly converging series with the sum of the series

$$P_{N+1} + BB_N + DD_N + \dots = P_{N-1}$$

This states that the sum of the amplitudes of the leading edges of all the pressure pulses transmitted at the second interface of any lamination is equal to the amplitude of the pulse impinging upon the first interface. This is to be expected because pulse attenuation and energy losses have been neglected.

The occurrence of these multiple reflections within a layer of material is illustrated by the following example. An aluminum plate having a thickness of 0.25-in. formed one side of a tank containing water. A small blasting cap was exploded in contact with the outside surface of the plate producing a pressure pulse in the aluminum having an amplitude of P_o . The explosive was of sufficiently small magnitude as not to produce a crater of any significant size. The impedance mismatch between aluminum and water is approximately 0.1 and that between aluminum and air is practically zero. According to Eqs. (12) and (13), the amplitude of the pulse transmitted into the water was 0.182 P_o and that of the pulse reflected from the aluminum-water interface was a negative or release wave having an amplitude of -0.818 P_o . At the aluminum-air interface,

reflection is nearly total. This reflected pulse, upon reaching the aluminum-water interface, will again be partially transmitted and partially reflected. Figure 10 is a distance-time plot showing the wave fronts in the aluminum and in the water. Figure 11 is a photograph showing clearly these multiple waves in the water produced by the internal reflections in the aluminum plate. Considering the fact that the exact pulse velocity for this aluminum alloy is not known, there is very good agreement between the theoretical plot and the photograph of the waves in the water. According to the computations, there should be eight multiple pulses per inch, and the photographs show seven.

SECTION V

EFFECT OF PULSE LENGTH AND MATERIAL THICKNESS

If the thickness of a lamination is sufficiently small or if the pulse length is sufficiently large, the train of transmitted waves will merge into a single wave. For this to occur, the pulse length, λ , must be equal to or greater than twice the material thickness.

The previous example will serve to illustrate this. The velocities of pressure waves in aluminum and water are approximately 20,900 and 5,200 ft/sec, respectively. With the aluminum plate having a thickness of 0.25-in., the wave length in the aluminum must be at least 0.50-in. in order that the first and second pulses, the second and third, the third and fourth, etc. will merge. If the wave length is as great as 1.0 in., the first, second, and third will overlap. The effect of the wave length upon the profile of the transmitted pulse is shown in Fig. 12, where it is assumed that the initial pulse in the aluminum plate was a step-function having length λ and amplitude P_0 . In this example if λ is less than 0.50-in., the transmitted wave would be a series of separate and distinct pulses having amplitudes as shown in Fig. 10. The pulse length in the water would be the ratio of the pulse velocity in water to that in aluminum times the pulse length in the aluminum, or

$$\lambda_W = \frac{c_W}{c_A} \lambda$$

This rate of decrease in amplitude is shown by the curve marked λ_1 in Fig. 12. If λ is greater than 0.5 but less than 1.0 in., the pulses will overlap, and the transmitted wave will rise in a stepwise manner from zero to point A and then decay stepwise along the curve indicated by λ_2 . If λ had a value greater than 2 in. and less than 2.5 in., the pulse front would increase to point B and then decay along λ_5 . If the wave length is very long, the amplitude of the transmitted pulse will continue to increase as shown by the curve OABC, approaching a maximum amplitude

of P_0 . The effect of the original pulse profile in the aluminum plate upon the pulse transmitted into the water is shown in Fig. 13. Figure 13a shows the theoretical pulse resulting from the step pulse shown and is that described by the curve $\lambda 5$ of Fig. 12. Figure 13B shows the pulse in the water resulting from a sawtooth pulse in the aluminum plate. Although P_0 and λ are the same, both the maximum amplitude and location of the peak pressure differ in the two examples given.

SECTION VI SECONDARY PRESSURE WAVES

It has been shown that although the multiple reflections within a lamination converge very rapidly, they may contribute substantially to the amplitude of the transmitted stress waves. It will now be shown that this is especially true if conditions are such that these secondary waves combine in phase with other waves, producing a stress that may be greater than the primary wave P .

Laminates are generally constructed with alternate layers of equal thickness. This may or may not be advisable from a structural standpoint. A specific case will be given as an example. Figure 14 is a distance-time plot of the pressure pulse through a composite laminate in which the even numbered laminations are all of the same material and have equal thickness. The odd numbered layers, of another material, also are equal in thickness, and the impedance mismatch has a value of 0.5. The wave front is designated by P , the values of which are given both in the Appendix and Fig. 7. The first of the internal reflections, A and B and their transmitted components, AA and BB , are shown and their values may be determined by reference to the Appendix. (Notation used here is defined in Fig. 9.) The amplitudes of the primary wave front, P , and the first forward-moving internal reflection, B , are given in Fig. 15. The amplitude of B , given by Eq. (20), has a value of $0.111 P_N$ when $K = 0.5$. The amplitude of B_1 is $0.074 P_0$ and that of the transmitted wave, BB_1 , is $0.099 P_0$. The front of BB_1 reaches the interface between the laminations 2 and 3 at exactly the same time as A_3 . The transmitted component of BB_1 is $[2K/(K + 1)] BB$, or $0.066 P_0$. The amplitude of B_3 (the reflected component of A_3) also has a value of $0.066 P_0$, giving the first forward-moving secondary wave in the third lamination a value of $0.132 P_0$. This continues through the laminate, being reinforced in the odd numbered laminations. The amplitude of this wave is designated as B' . The value of B' for any value of N may be found by the relation

$$B_N' = \frac{N}{2} B_N \quad (22)$$

if N is even, and

$$B_N' = \frac{N+1}{2} B_N \quad (23)$$

if the value of N is odd. A plot of the amplitude of B' is shown in Fig. 15. It may be seen that for this case of $K = 0.5$, B' increases in amplitude up to the eighteenth lamination, after which it decreases as shown.

The lamination in which B' is a maximum may be found by writing the expression for B' by combining Eqs. (15), (20), and (22) giving

$$B' = \frac{N}{2} \left[\frac{1-K}{1+K} \right]^2 \left[\frac{2\sqrt{K}}{1+K} \right]^N P_0 \quad (24)$$

for even values of N . Differentiating with respect to N and equating to zero, this gives

$$e^{1/N} = \frac{1+K}{2\sqrt{K}} \quad (25)$$

The same relation is obtained by using the equation for B' for an odd number of laminations. When using Eq. (25) to determine the lamination in which the amplitude of the secondary wave B' reaches a maximum value, the nearest even value of N should be used for values of K less than unity and the nearest odd value for values of K greater than unity.

Referring again to Fig. 14, it is seen that reinforcement of pressure waves also occurs in the even numbered laminations, resulting in the wave indicated as B'' . The amplitude of B'' is the same as that of B' in the even numbered layers but has a different value in the odd layers, this being

$$B_N'' = \frac{N-1}{2} B_N \quad (26)$$

Values of the amplitude of B'' for both even and odd numbered laminations are shown in Fig. 15.

SECTION VII FURTHER EFFECTS OF LAMINATION THICKNESS

Suppose that the thickness, t_1 , of the odd numbered laminations of Fig. 14 is decreased. This will result in the front of the primary pressure wave P and that of the secondary wave B' coming closer together. As the thickness t_1 approaches zero, the amplitude of the wave front will approach the value of $P + B'$. Although t_1 must have a finite thickness (Ref. 8), the amplitude may actually have this value because a

pressure pulse generally rises rapidly from zero to a maximum and has a zero slope at that point (Ref. 9). Similarly, the amplitude of the wave front will approach $P + B''$ if the thickness of the even numbered laminations, t_0 , is decreased to a small value. The sums $P + B'$ and $P + B''$ for $K = 0.5$ are shown on Fig. 15.

Although the sum of the primary and one of the secondary waves never exceeds the value of P_0 , the pressure is much greater throughout the laminate than would have been computed if the effect of the secondary pulse had not been considered.

If the relative thickness of the laminations is such that

$$t_0/t_1 = c_0/c_1 \quad (27)$$

the fronts of the two waves B' and B'' will coincide, giving a secondary wave of amplitude

$$B_N' + B_N'' = N B_N \quad (28)$$

in all laminations, both even and odd. Figure 16 shows a distance-time plot of the wave fronts for this condition for the case where $K = 0.5$, and Fig. 15 shows the variation of the amplitude versus lamination number. Graphs of $B' + B''$ for values of K ranging from 0.1 to 10.0 for up to thirty laminations are given in Fig. 17. Curves showing the pulse amplitudes in the even numbered laminations for values of $K < 1$ are shown in Fig. 18. The relation given by Eq. (25), which also may be expressed in the form

$$N = \frac{\sim 1}{\ln \frac{2\sqrt{K}}{1+K}} \quad (29)$$

gives the lamination number in which the amplitude $B' + B''$ is a maximum. This value is given by the curve for N_1 shown in Fig. 19.

When the ratio of the wave velocities in the two media is very large (or very small) and the lamination thickness is in the same proportion, the leading edges of the waves P and $B' + B''$ will be very close together, and the resulting pulse amplitude will probably be the sum of the two. This will also be true in any case where the pulse has a very long wave length. The sum, $P + B' + B''$, is shown for K having a value of 0.5 in Fig. 15. For these conditions, the resulting pressure in the laminate is greater than the pressure would have been in a solid target. Graphs of $P + B' + B''$ for values of K ranging from 0.1 to 10.0 for up to thirty laminations are given in Fig. 20. Curves showing the pulse amplitudes in the even numbered layers for values of $K < 1$ are shown in Fig. 21.

The expression for the amplitude of this pulse for even values of N is

$$P + B' + B'' = \left[\frac{2\sqrt{K}}{1+K} \right]^N \left[1 + N \left(\frac{1-K}{1+K} \right)^2 \right] P_0 \quad (30)$$

The lamination in which the pulse amplitude is a maximum is found by differentiating this expression with respect to N and equating to zero. This gives

$$N = - \left[\frac{1}{1 + \frac{2\sqrt{K}}{1+K}} + \left(\frac{1+K}{1-K} \right)^2 \right] \quad (31)$$

These values are given by the curve N_2 of Fig. 19.

The third wave shown in Fig. 16 is a tensile or release wave. Although this wave is made up of many weak pulses meeting in phase (for example, sixty-five pulses combine to form this wave at the tenth lamination), it may contribute significantly to the stress developed in the target as shown in the following example.

Consider a target which consists of five laminations with an impedance mismatch of 0.5. (This would be the approximate value for a steel-lead or copper-aluminum combination.) The thickness of the first, t_0 , and the last, t_4 , is relatively large as shown in Fig. 22, and the thicknesses of the other laminations are such that $t_1 = t_3 = c_1 t_2 / c_0$, where c_0 is the pulse velocity in laminations 0, 2, and 4, and c_1 is the velocity in 1 and 3. The distance-time plot (Fig. 22) of the wave fronts is shown with the amplitudes given for the last lamination for the case of a step-pulse having amplitude P_0 .

First, consider the stress developed by the reflections from the rear surface if $\lambda < 2t_2$. The wave transmitted through the last lamination will consist of separate pulses as shown in Fig. 22a for time T_2 . Upon total reflection, the maximum tensile stress will occur when the reflected first pulse interacts with the oncoming third pulse giving a tensile stress of 0.965 P_0 . At time T_3 , the pulse form is shown in Fig. 22c.

For $\lambda > 2t_2$, the waves transmitted through the last lamination will overlap and appear as shown in Fig. 22b. The reflected tensile wave will have a maximum amplitude of 1.23 P_0 at time T_4 , as shown in Fig. 22d. This means that if this target had been constructed of copper-aluminum laminations, the tensile stress developed in the last layer of copper would have been 23 percent greater than if a solid copper target had been used.

SECTION VIII

DISCUSSION

According to these theoretical considerations, a few general conclusions may be drawn which, if properly observed, should lead to the use of laminates in such a way as to reduce the probability of damage produced by stress induced by explosions or impact.

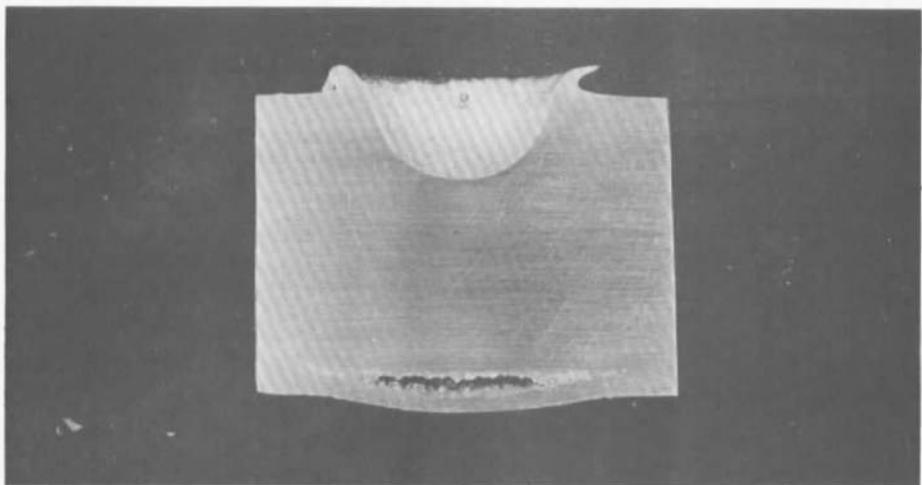
1. The impedance mismatch should not have a value near unity.
2. The last layer of a laminate should be of the material having the least characteristic impedance.
3. The relative thicknesses of the two materials should not be in the same proportions as the wave velocities in the respective materials.
4. The laminations should be of sufficient thickness so as not to result in a superposition of the transmitted pulses.
5. The number of laminations should not be such that the maximum stress, according to Fig. 19, will occur in the last layer.
6. Alternate laminations should not be of the same thickness.

Further experimental work is needed to verify the validity of the assumptions made and the conclusions reached in this study.

REFERENCES

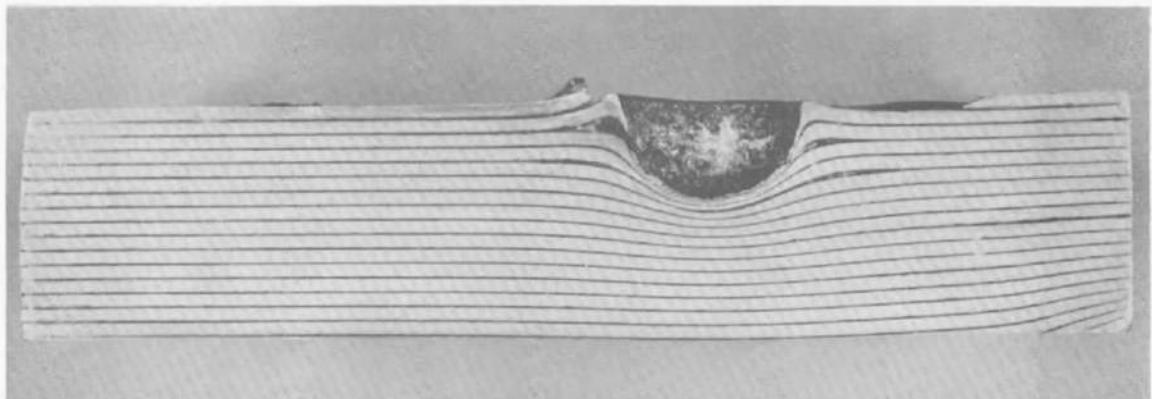
1. Summers, James L. and Nysmith, C. Robert. "The Resistance of Composite Space Structures to Hypervelocity Impact." AIAA Fifth Annual Structures and Materials Conference Proceedings, April 1964, p. 386.
2. McMillan, A. R. "An Investigation of the Penetration of Hypervelocity Projectiles Into Composite Laminates." Proceedings of the Sixth Symposium on Hypervelocity Impact, Vol. III, DA - 31 - 124 - ARO (D) - 16, Firestone Tire and Rubber Co., August 1963, p. 314.
3. Kinslow, Ray. "Observations of Hypervelocity Impact of Transparent Plastic Targets." AEDC-TDR-64-49 (AD 438947), May 1964, p. 7, 16.

4. Gehring, J. W., Christman, D. R., and McMillan, A. R. "Hyper-velocity Impact Studies Concerning the Meteoroid Hazard to Aerospace Materials and Structures." AIAA Fifth Annual Structures and Materials Conference Proceedings, April 1964, p. 78.
5. Kinslow, Ray. "Properties of Spherical Stress Waves Produced by Hypervelocity Impact." AEDC-TDR-63-197 (AD 421578), October 1963, p. 1.
6. Kolsky, H. Stress Waves in Solids. Dover Publications, Inc., 1963, p. 16.
7. Rinehart, John S. and Pearson, John. Behavior of Metals Under Impulsive Loads. The American Society for Metals, 1954, p. 31.
8. Clay, Robert Blaine. Formation and Behavior of Shock Waves in Solids. University of Utah Press, 1960, p. 26.
9. Rinehart, John S. "Some Quantitative Data Bearing on the Scabbing of Metals." Journal of Applied Physics, Vol. 22, No. 5, May 1951, pp. 555-560.



Target Material: Annealed Copper Projectile Diameter: 3/16 in.
Target Thickness: 1 in. Projectile Velocity: 20,000 ft/sec
Projectile Material: Aluminum Projectile Shape: Sphere

Fig. 1 Fracture in a Solid Target



Target Material: Annealed Copper-
Solder Laminate Projectile Diameter: 3/16 in.
Target Thickness: 3/4 in. Projectile Velocity: 21,300 ft/sec
Projectile Material: Aluminum Projectile Shape: Sphere

Fig. 2 Fracture in a Laminated Target

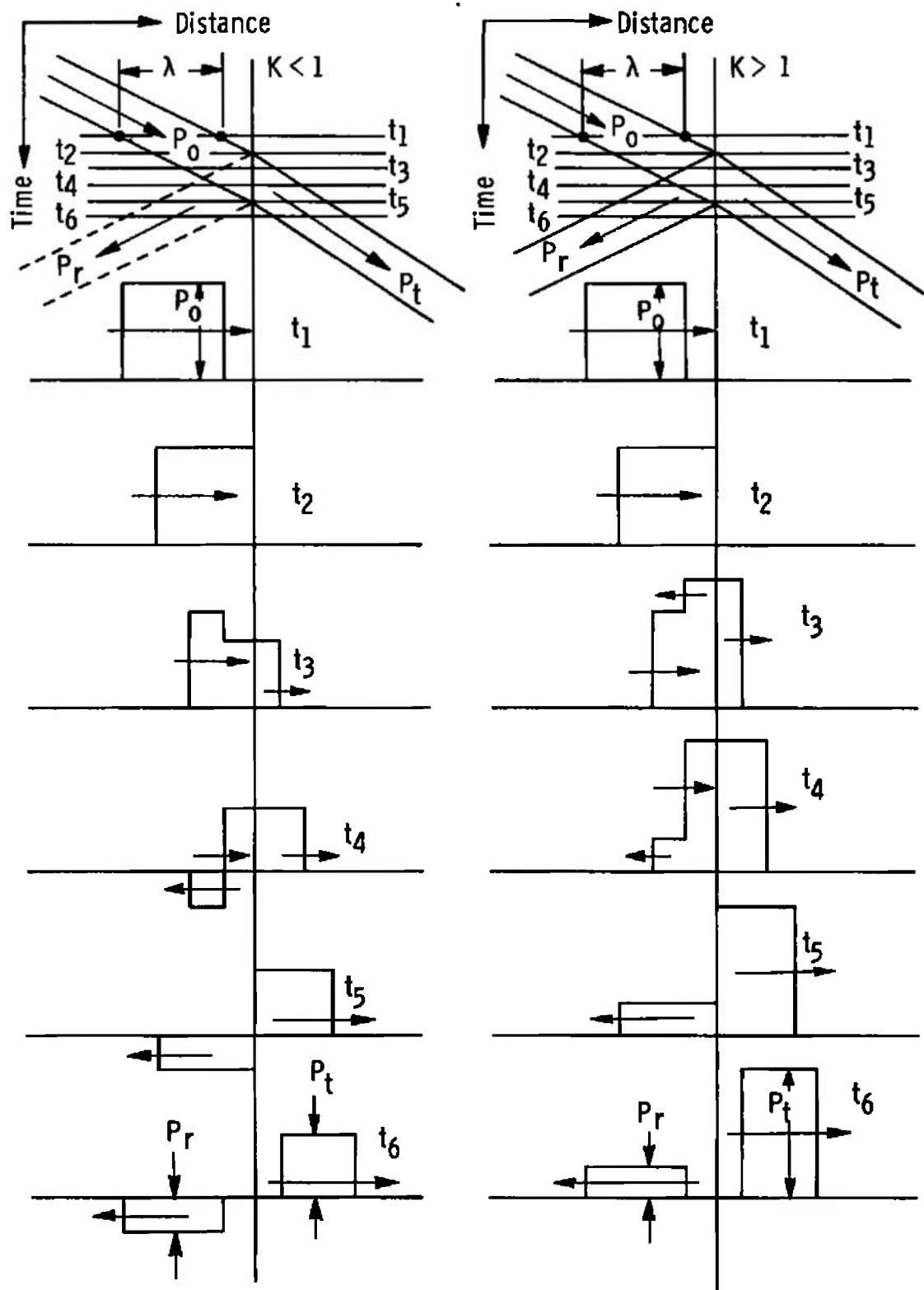


Fig. 3 Mechanics of Pressure Pulse at an Interface

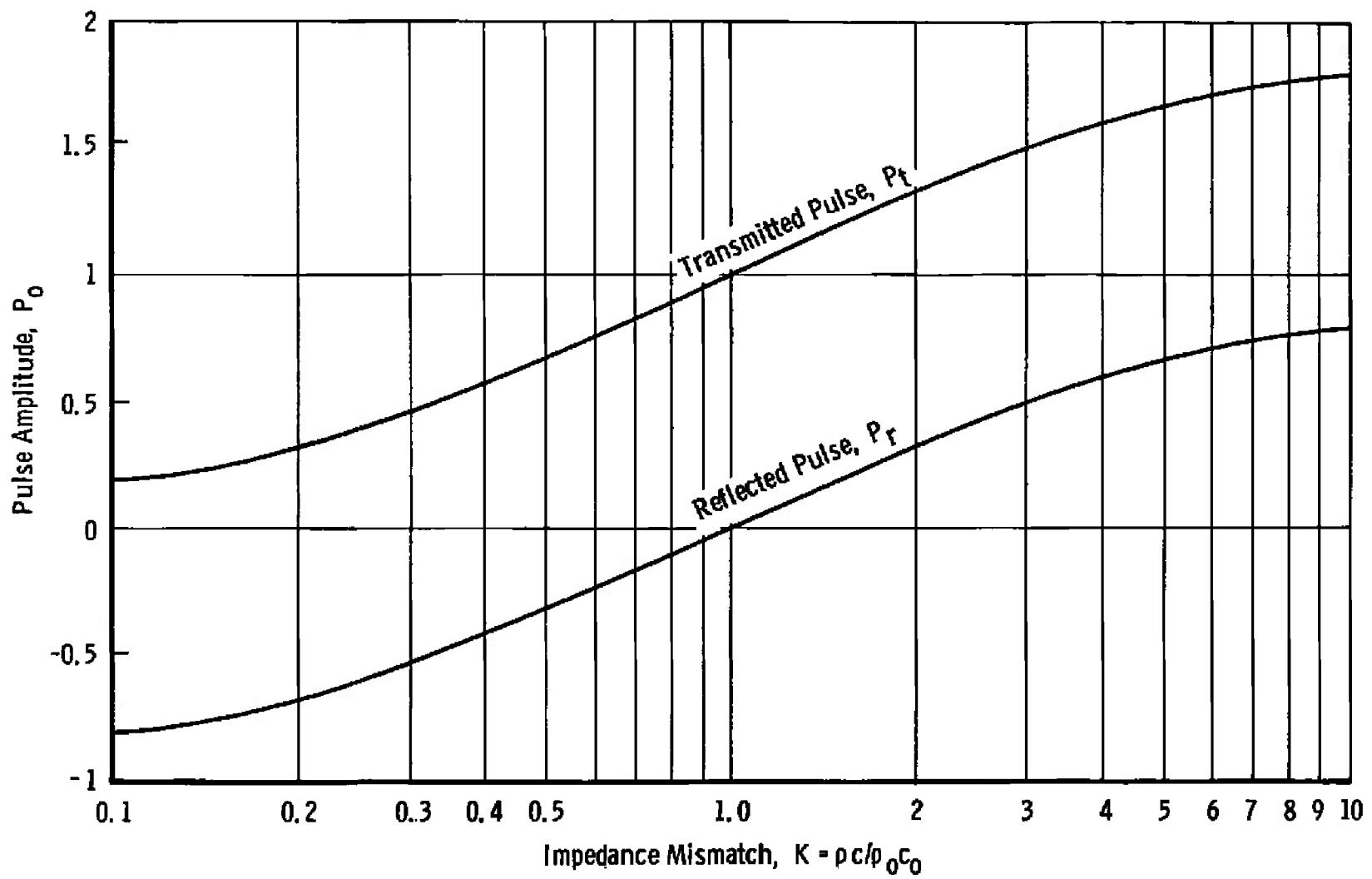


Fig. 4 Transmitted and Reflected Pulse Amplitudes as a Function of Impedance Mismatch

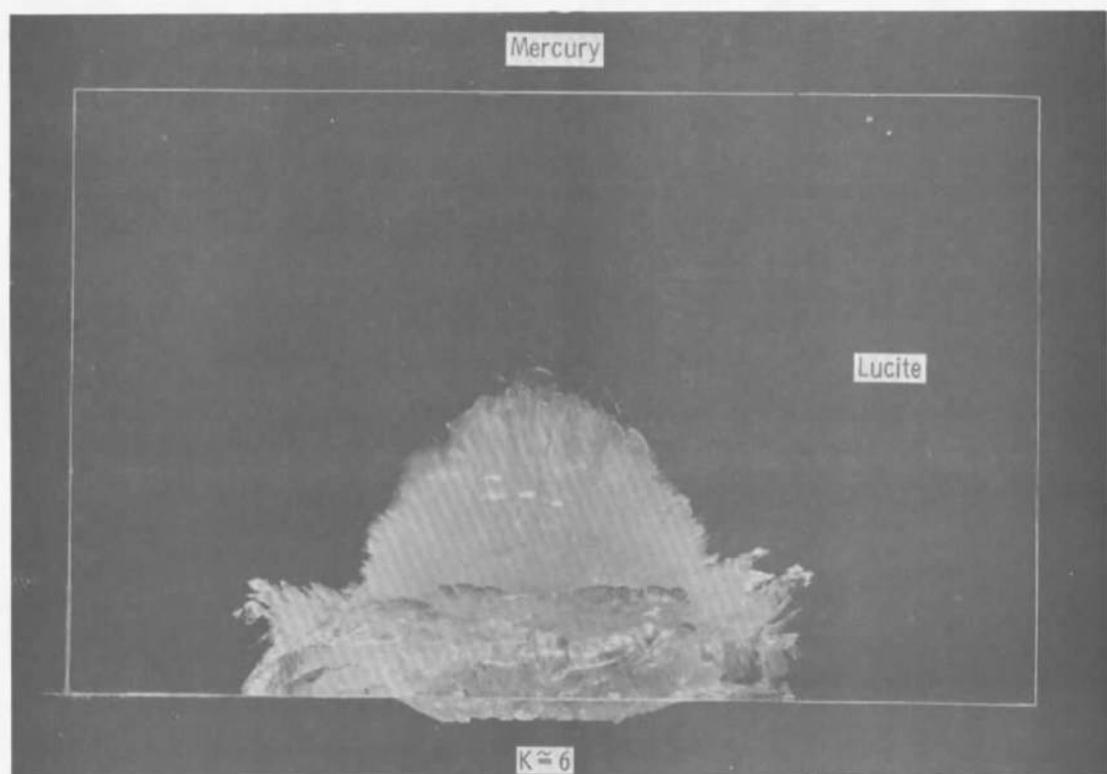
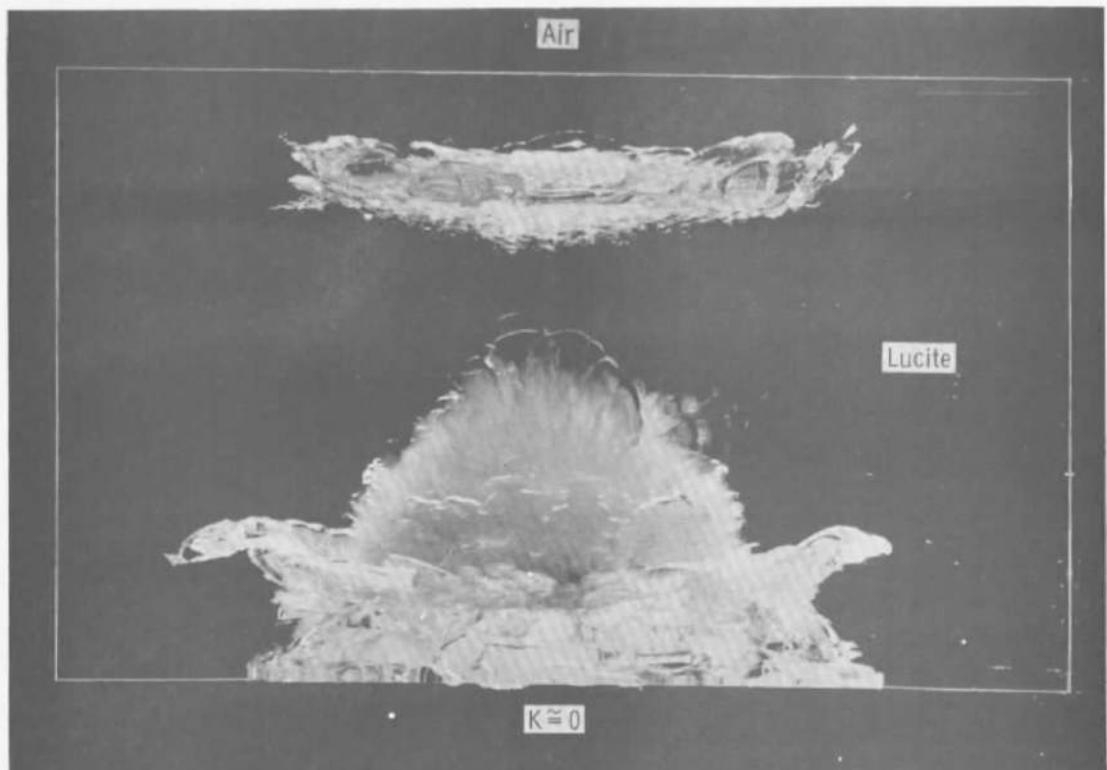
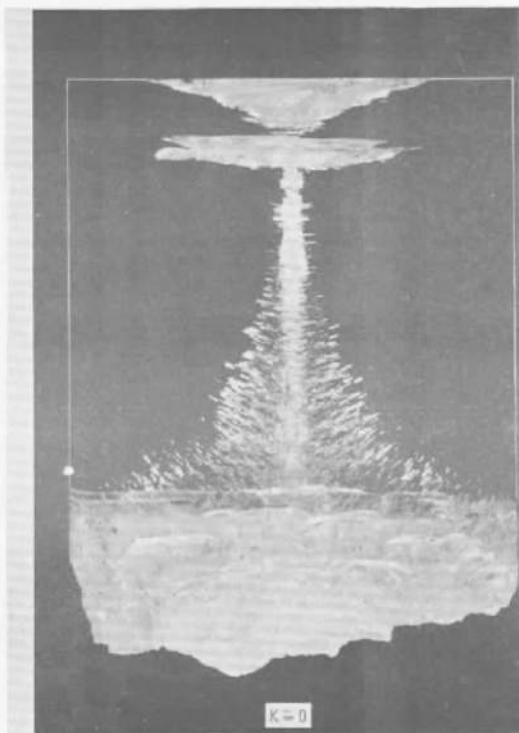
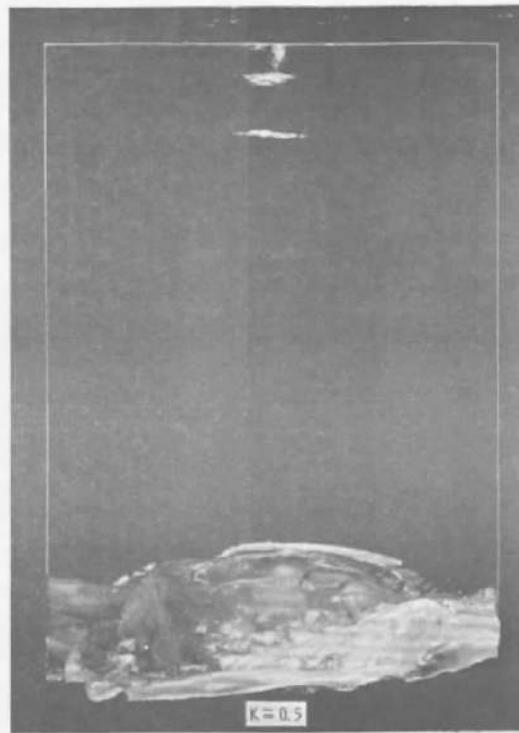


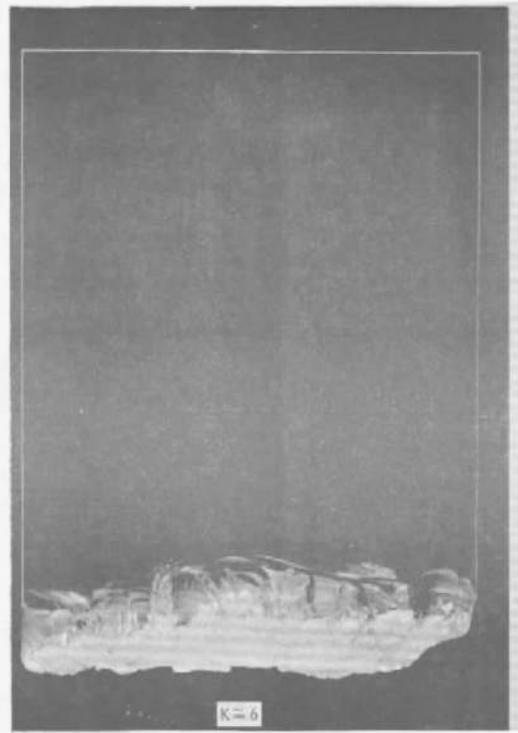
Fig. 5 Fractures in Plastic Blocks (Produced by Identical Blasting Caps)



K=0



K=0.5



K=6

Fig. 6 Fractures in Plastic Cylinders (Produced by Identical Blasting Caps)

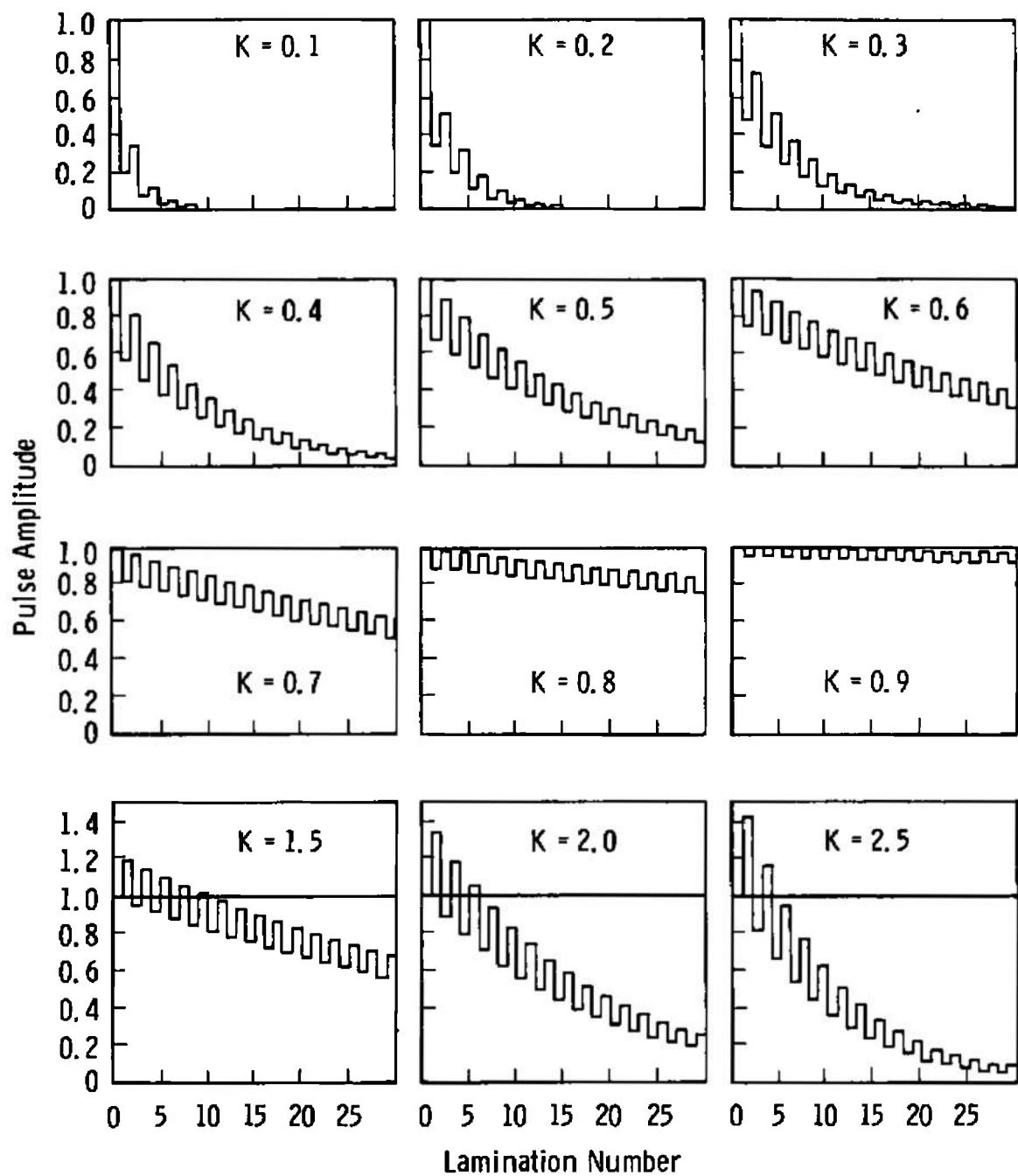


Fig. 7 Primary Pulse Amplitude

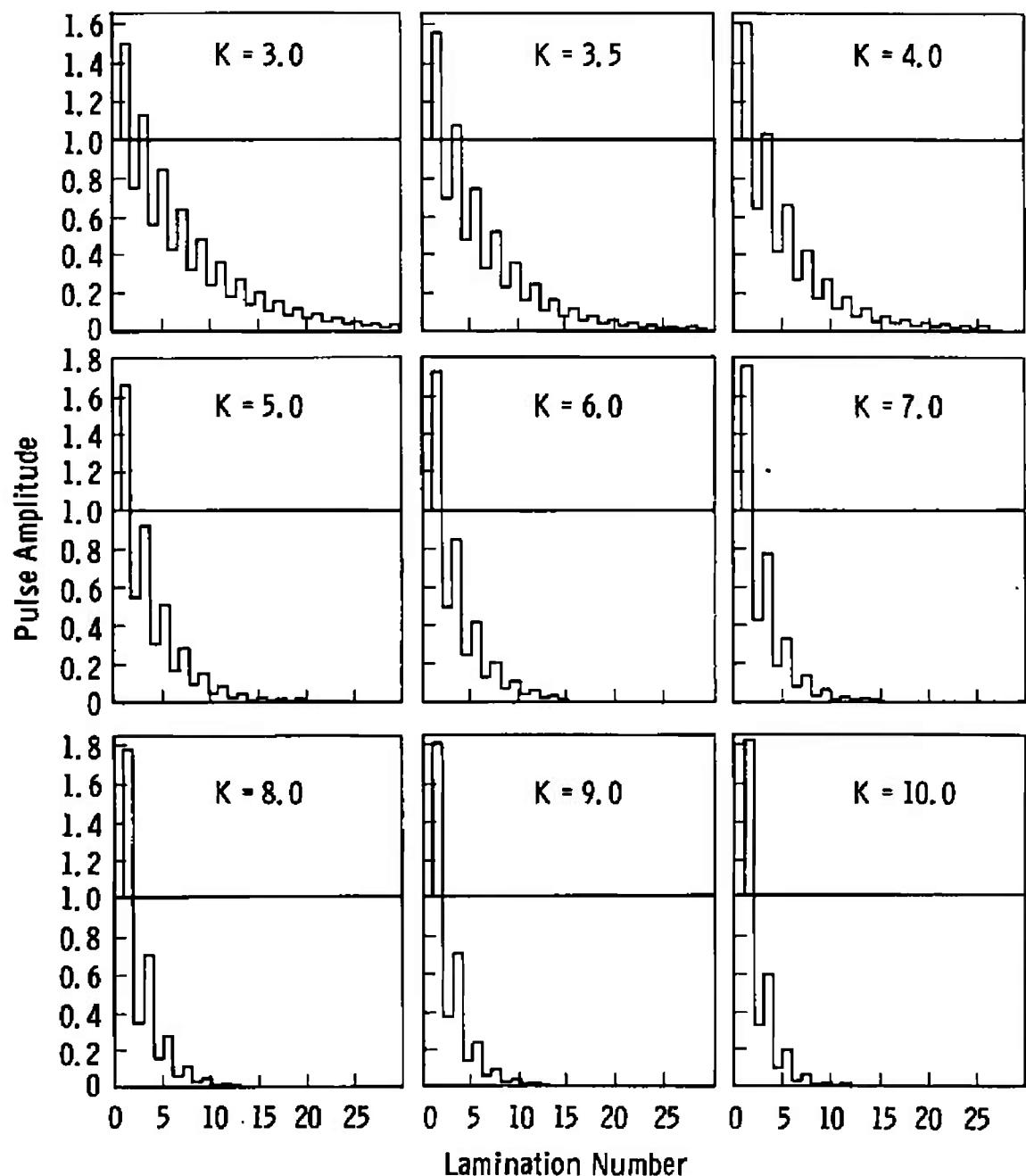


Fig. 7 Concluded

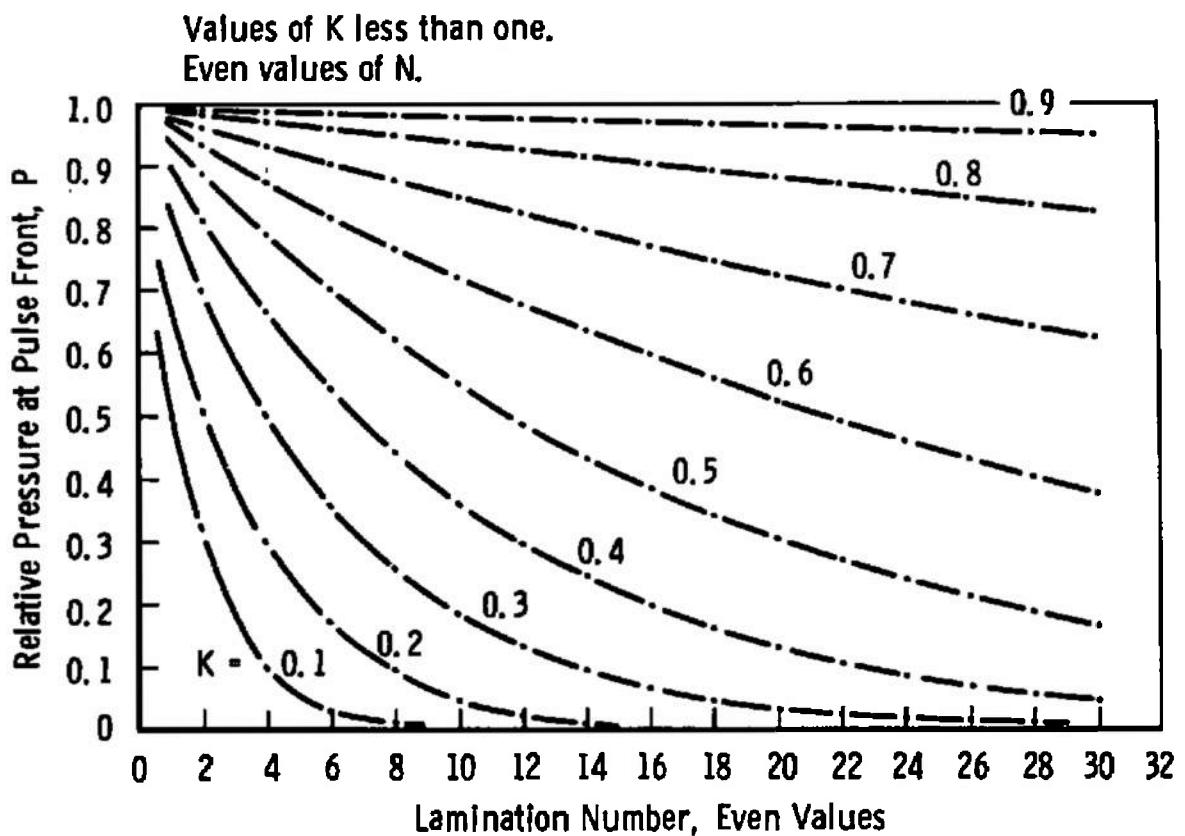


Fig. 8 Effect of Impedance Mismatch upon Primary Pulse Attenuation

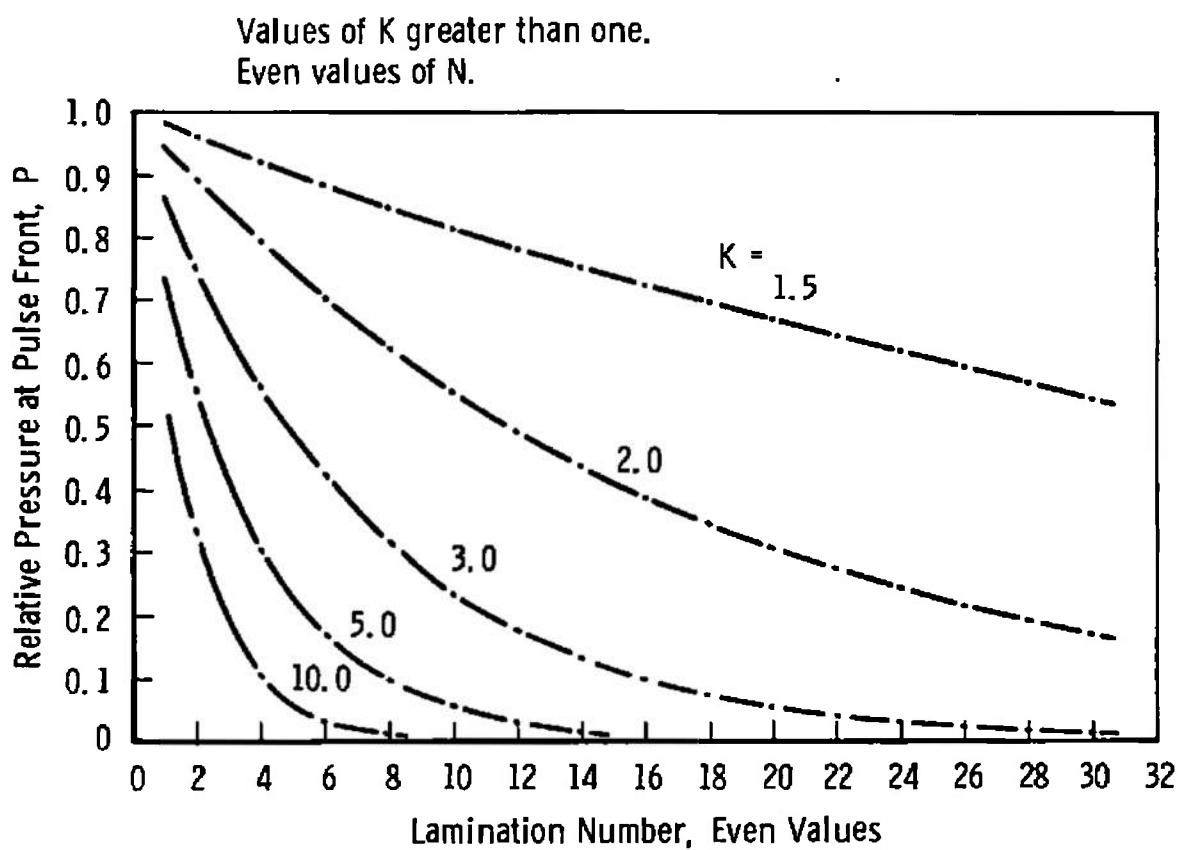


Fig. 8 Continued

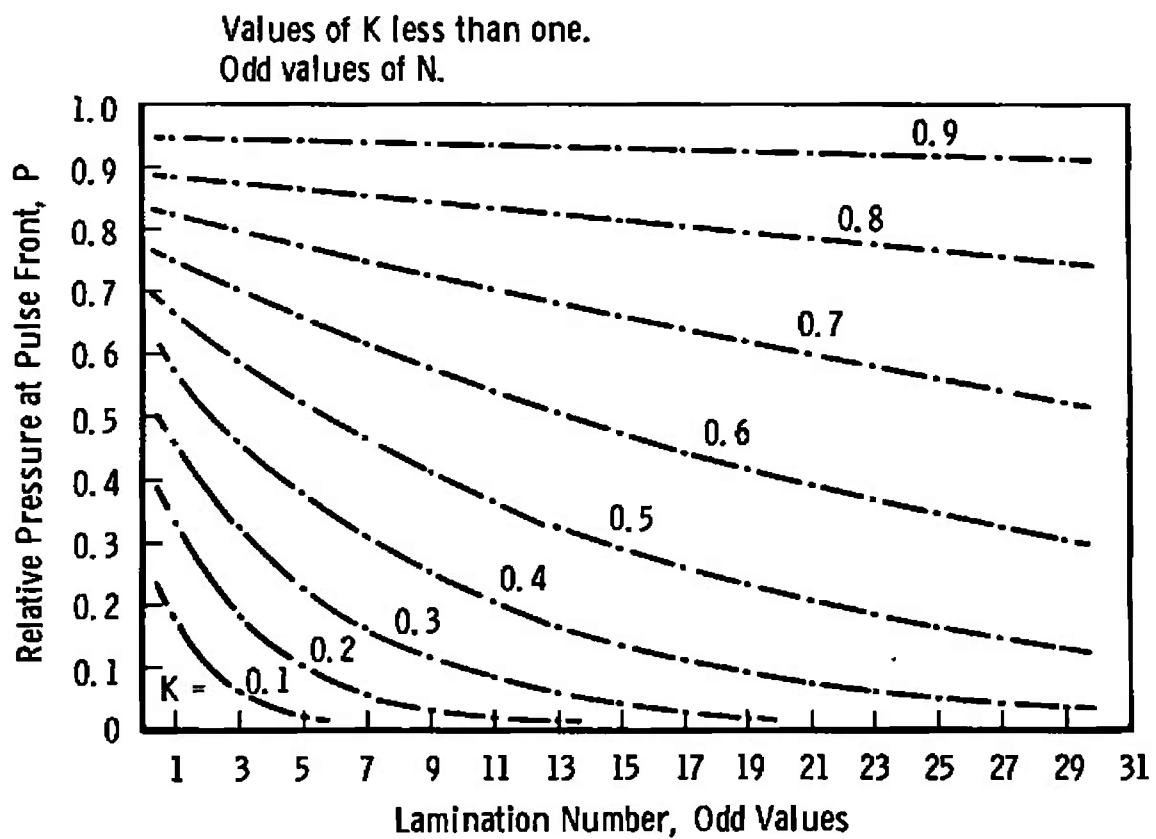


Fig. 8 Continued

Values of K greater than one.
Odd values of N .

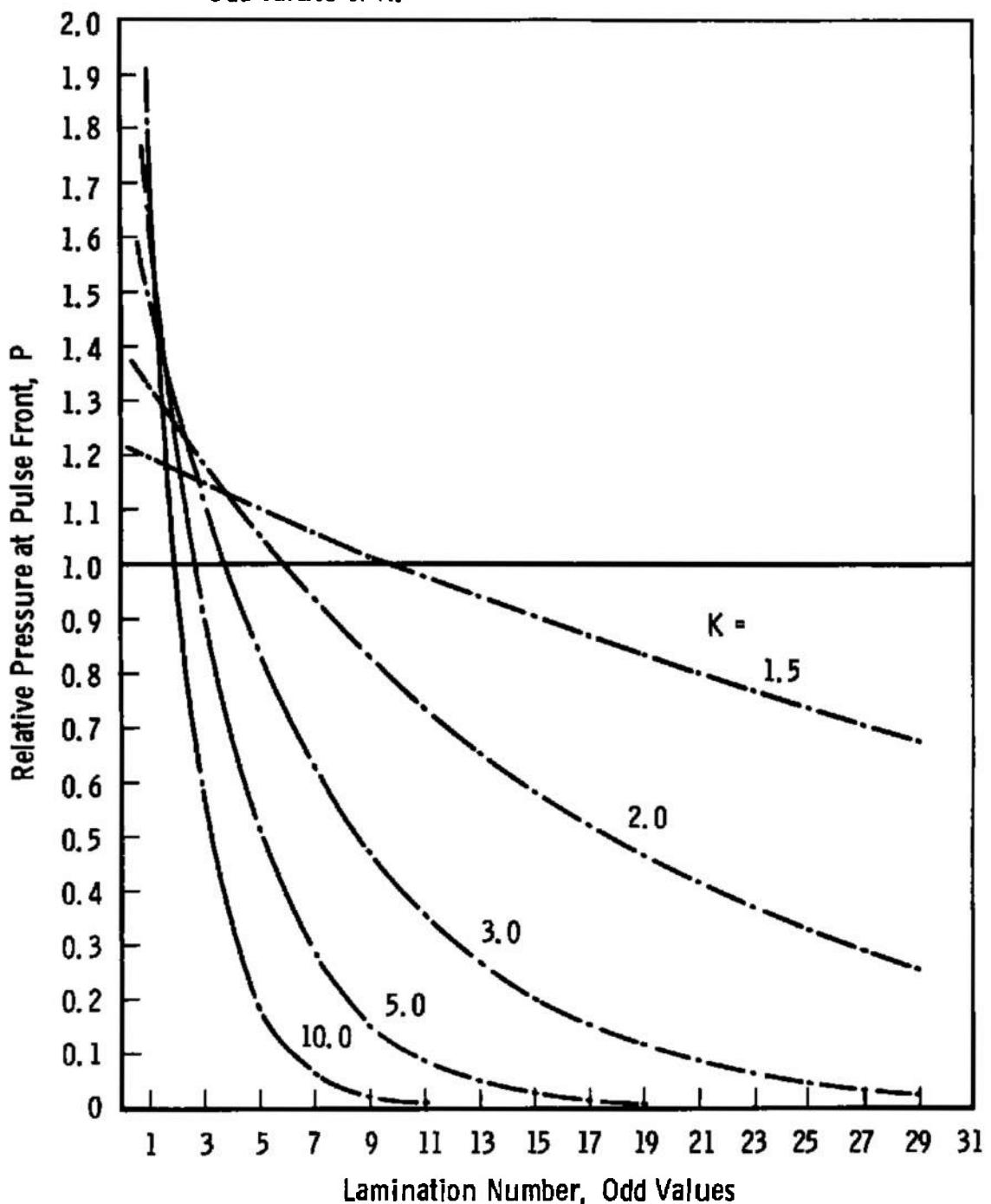


Fig. 8 Concluded

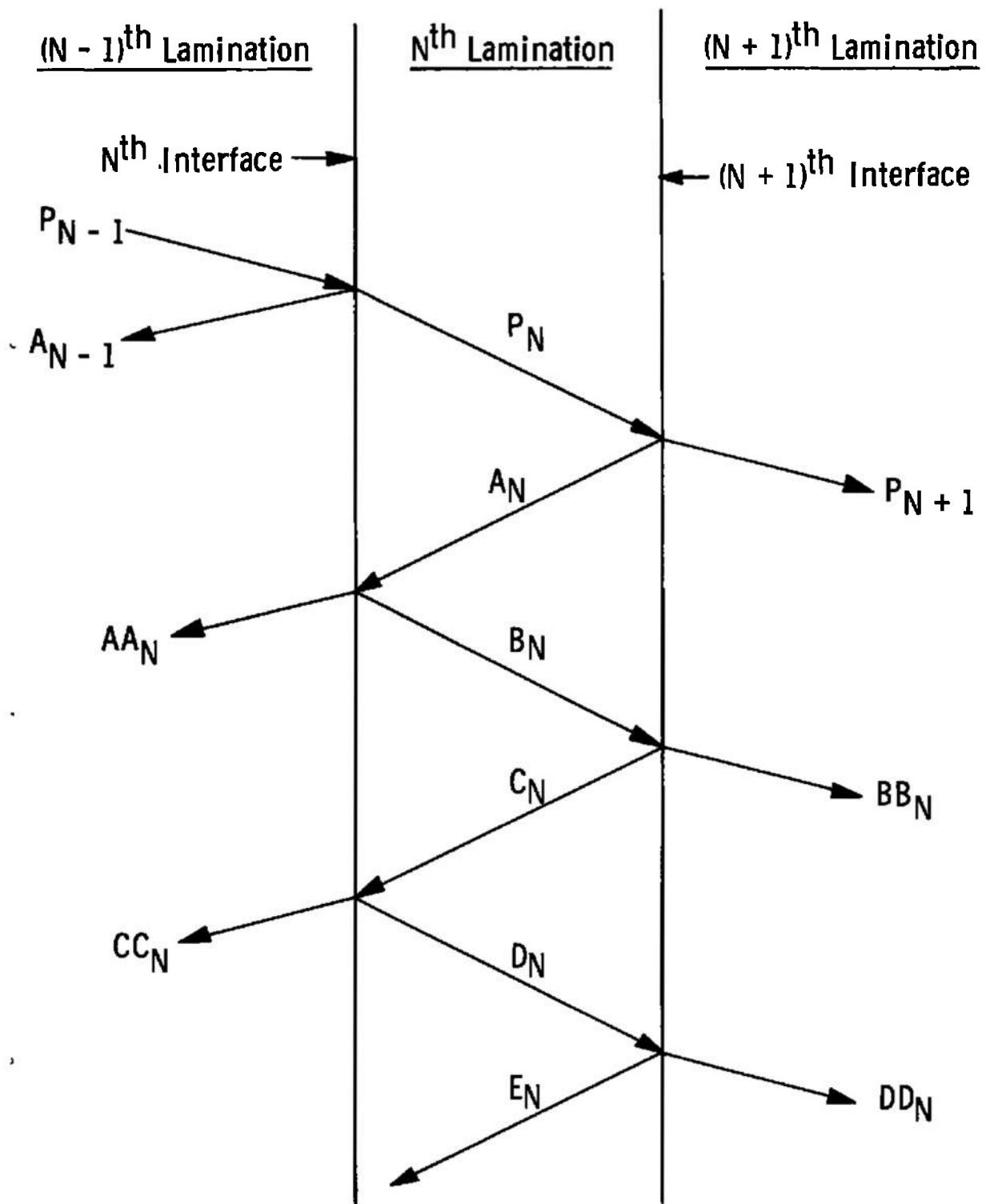


Fig. 9 Multiple Reflections within a Lamination

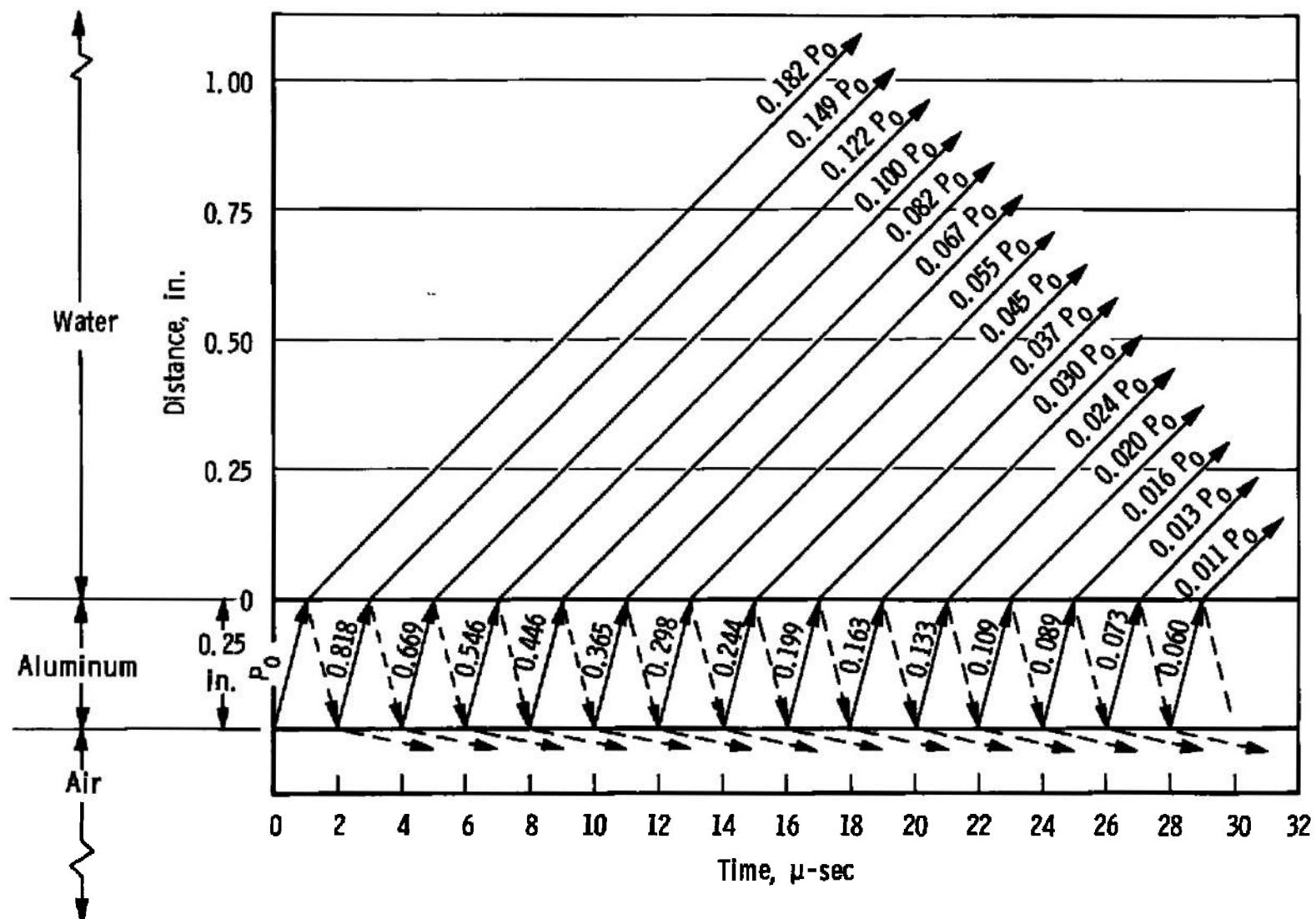


Fig. 10 Transmitted Waves in Water Produced by Multiple Reflections in Aluminum

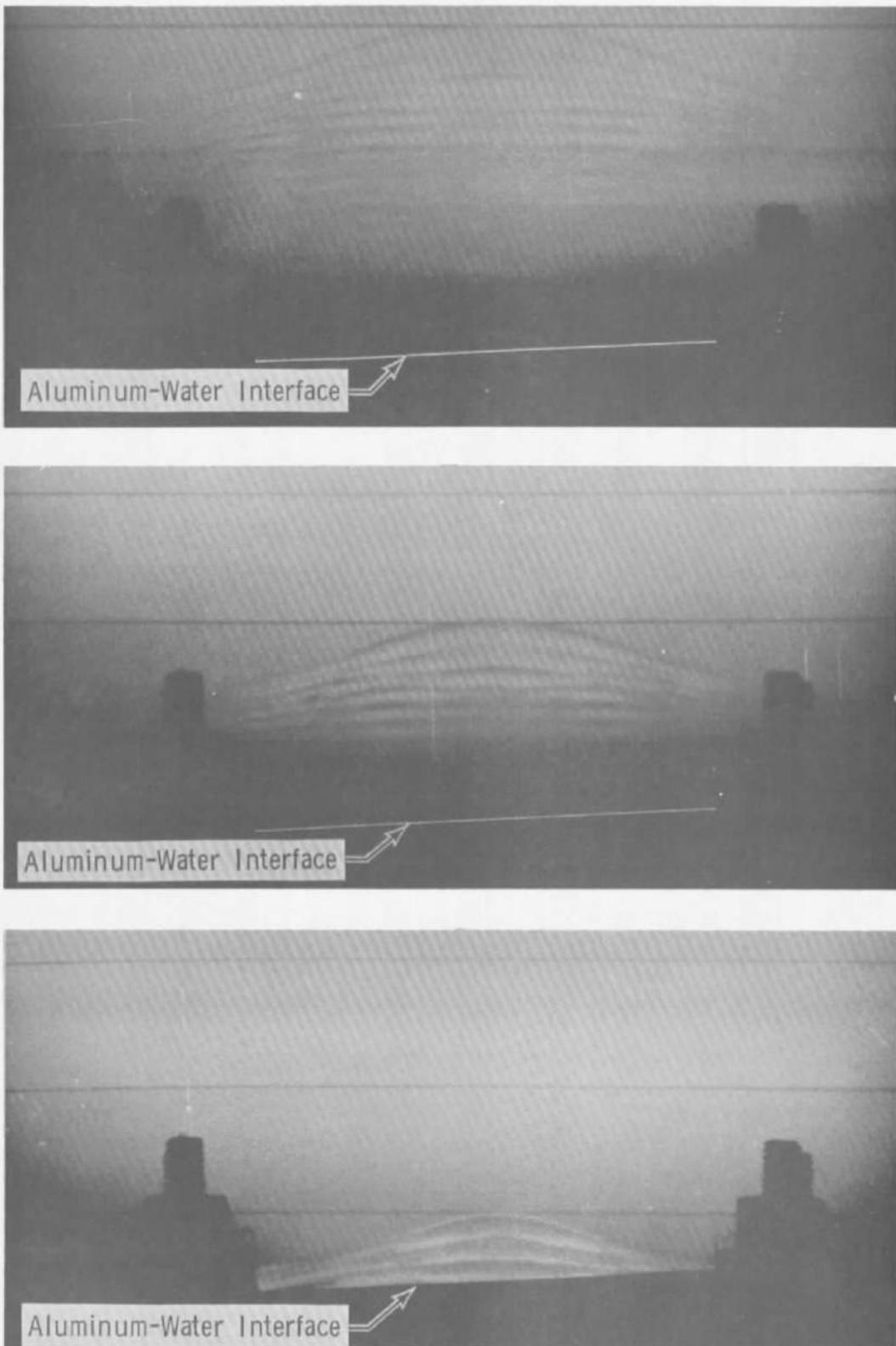


Fig. 11 Multiple Pressure Waves in Water

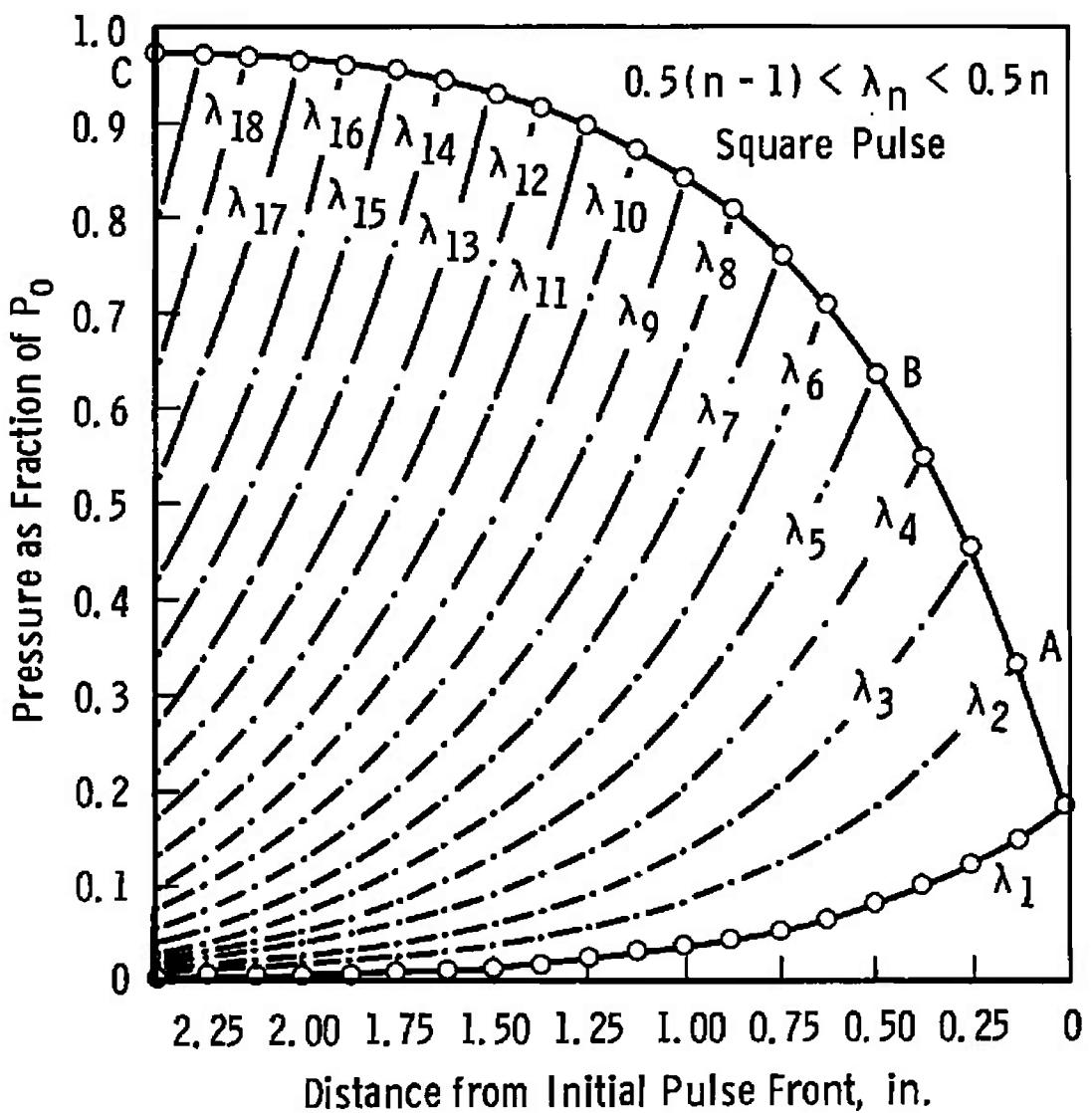
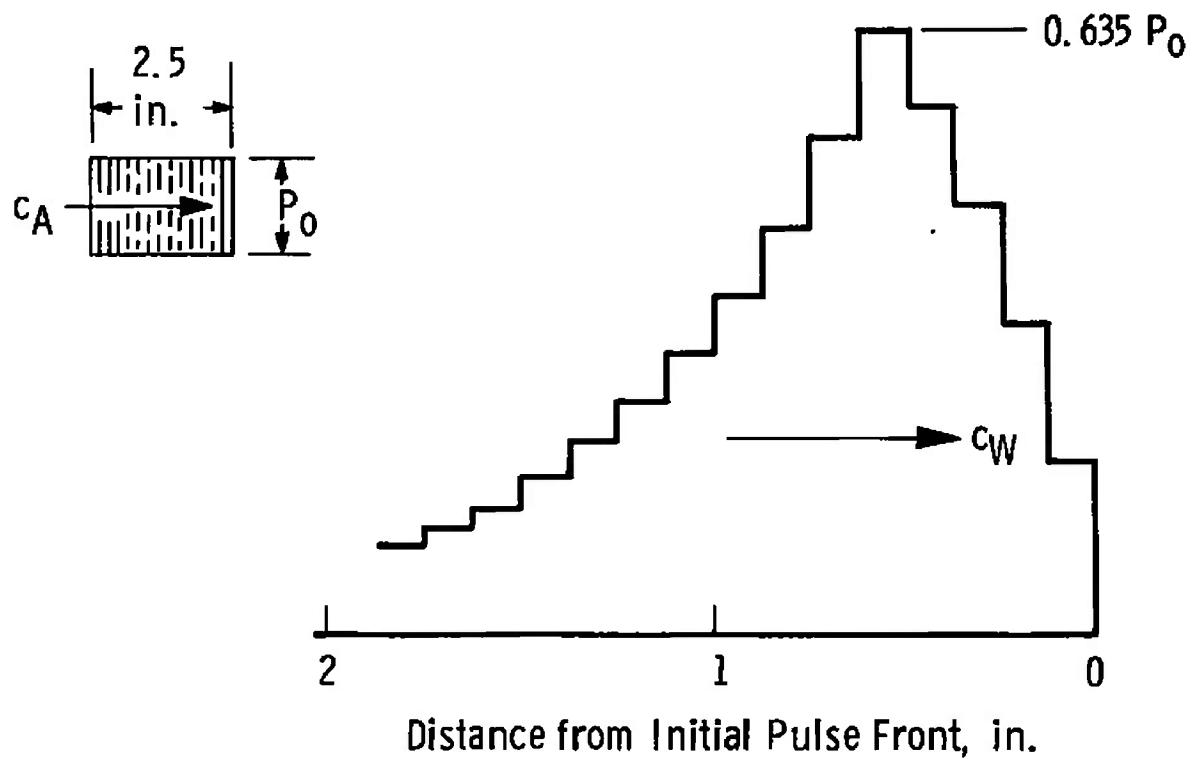
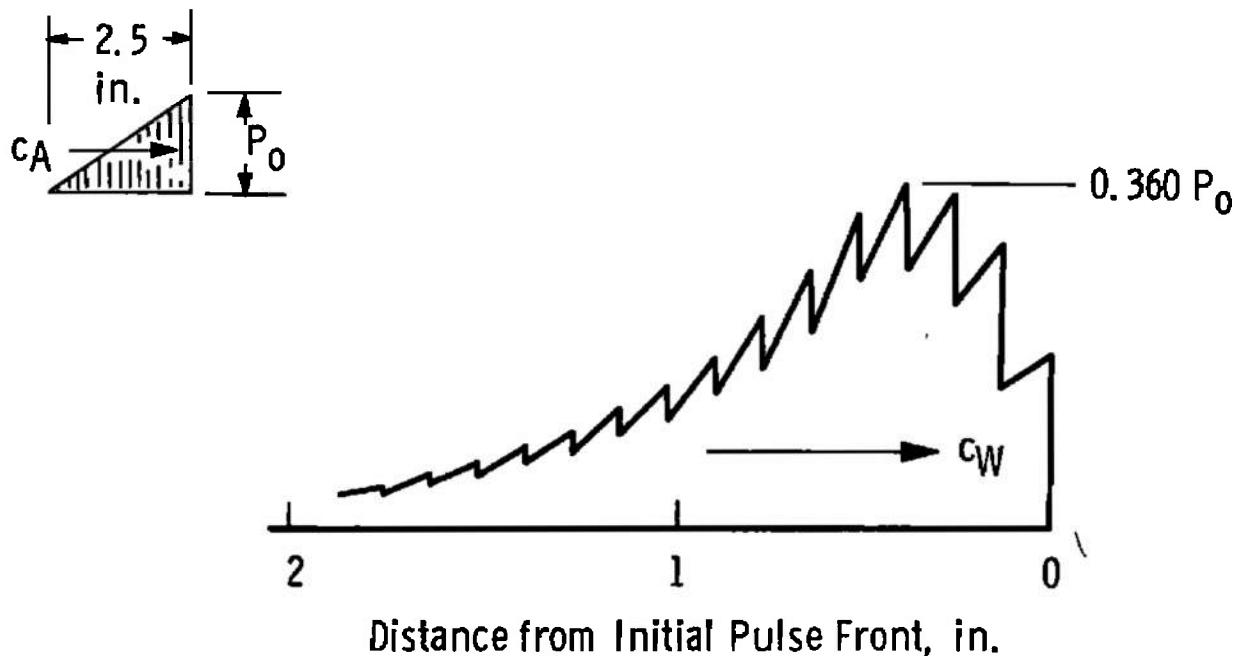


Fig. 12 Effect of Pulse Length upon the Transmitted Wave in Water



a. The above pulse in a 0.25-in. aluminum plate would transmit into water the wave shown



b. The above pulse in a 0.25-in. aluminum plate would transmit into water the wave shown

Fig. 13 Effect of Pulse Profile upon the Transmitted Wave in Water

Material Properties

If the Lamination Number is Even:

 ρ_0 = Material Density c_0 = Pulse Velocity t_0 = Thickness

If the Lamination Number is Odd:

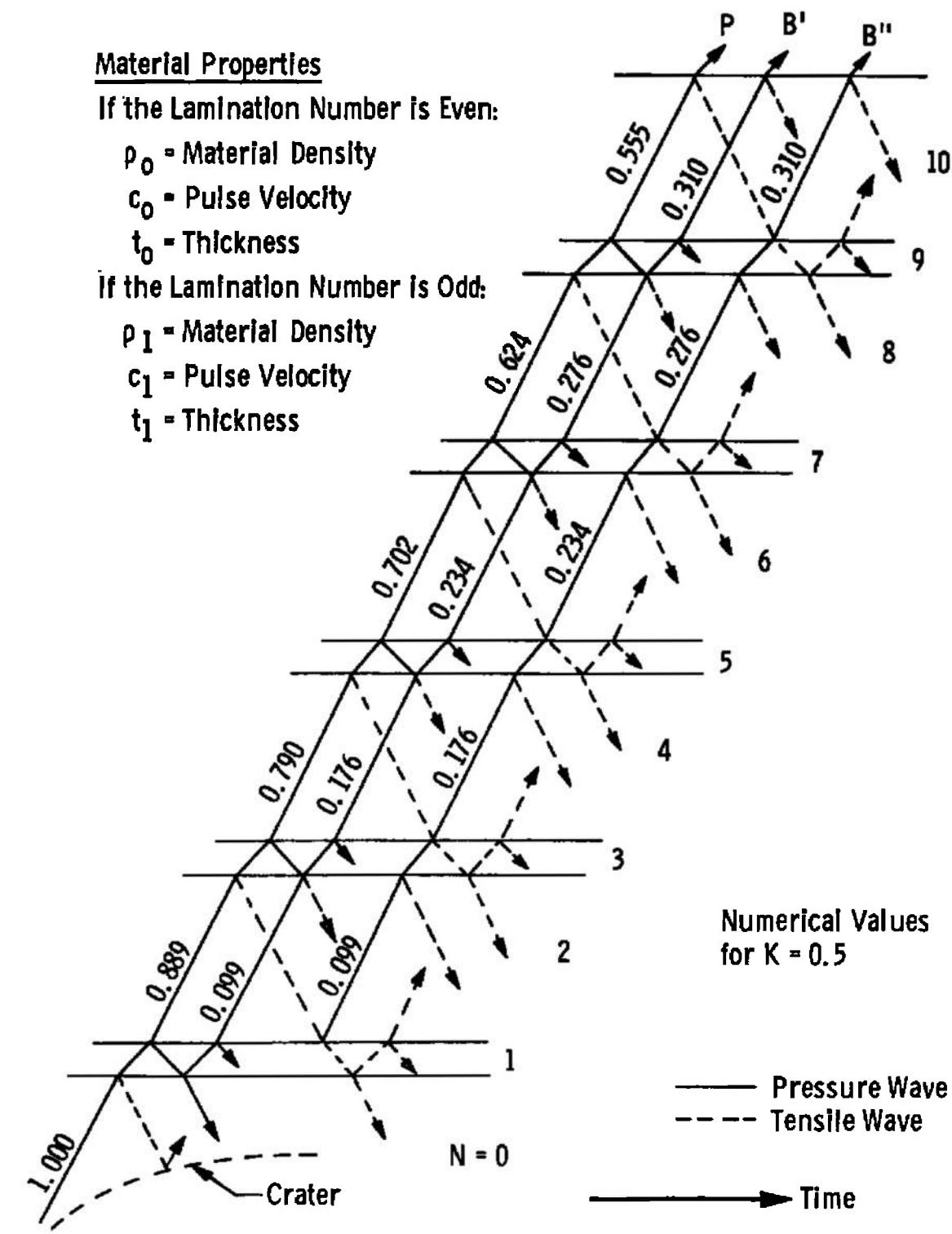
 ρ_1 = Material Density c_1 = Pulse Velocity t_1 = Thickness

Fig. 14 Primary and Secondary Pressure Waves in Composite Laminates

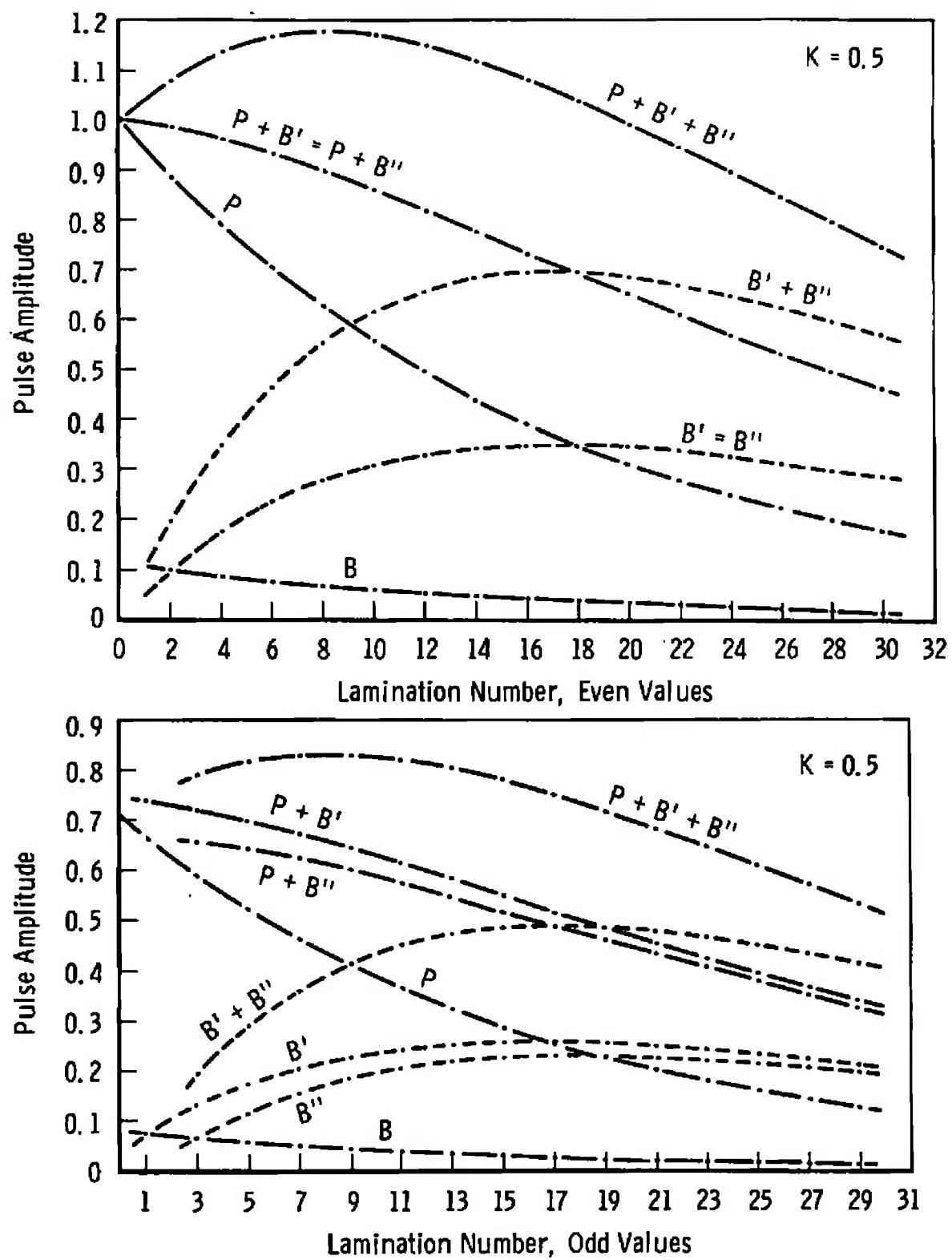


Fig. 15 Possible Combinations of Primary and Secondary Pressure Waves

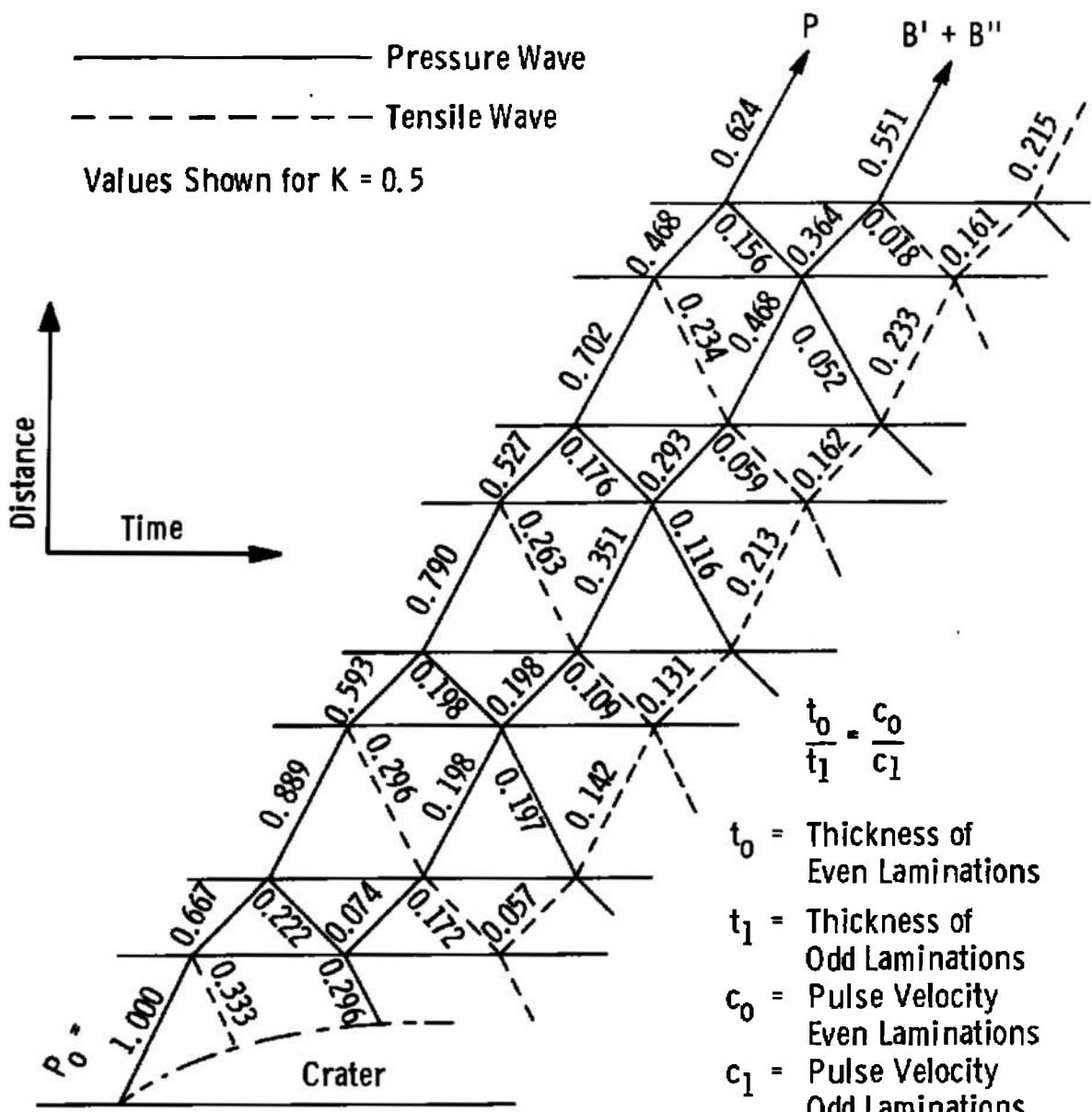


Fig. 16 Conditions for Maximum Amplitude of Secondary Pressure Waves

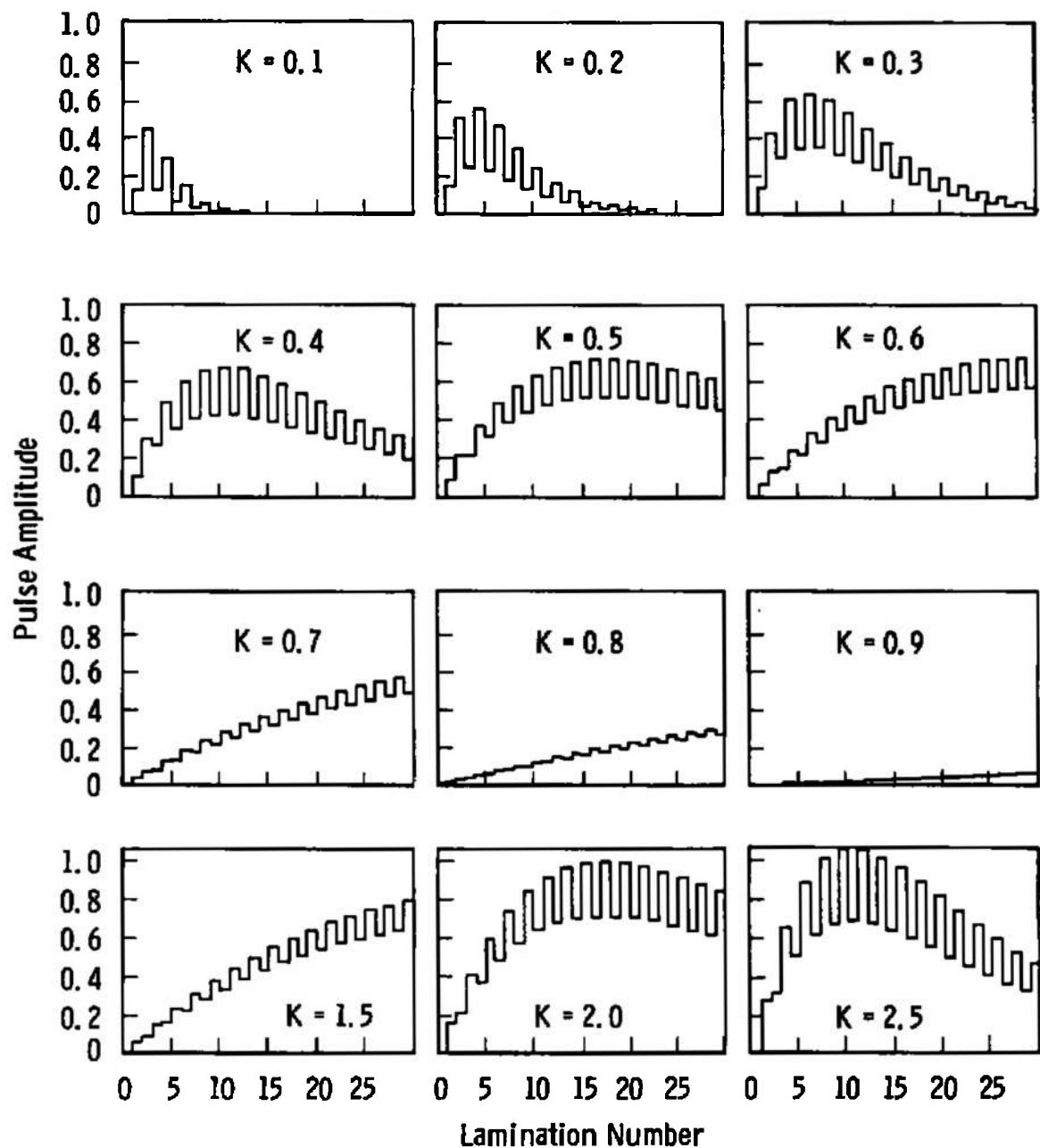


Fig. 17 Secondary Pulse Amplitude

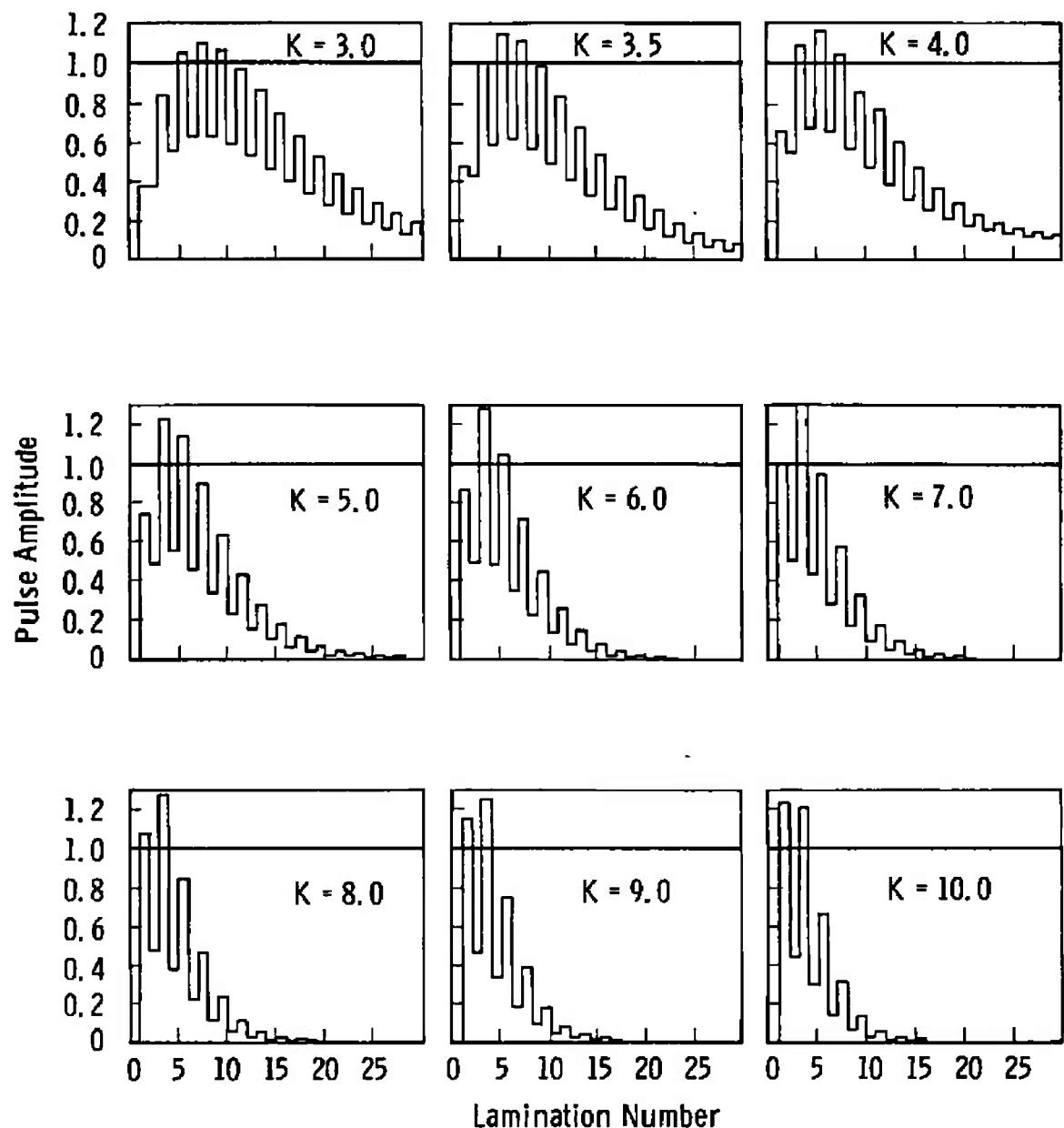


Fig. 17 Concluded

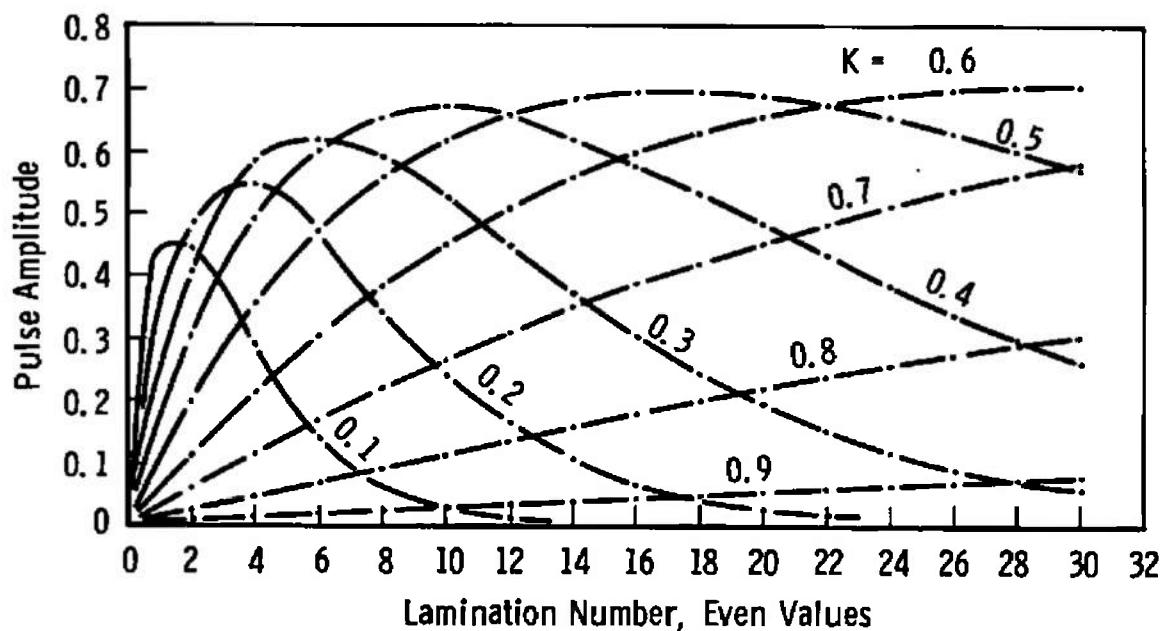


Fig. 18 Effect of Impedance Mismatch upon Amplitude of Secondary Pulses

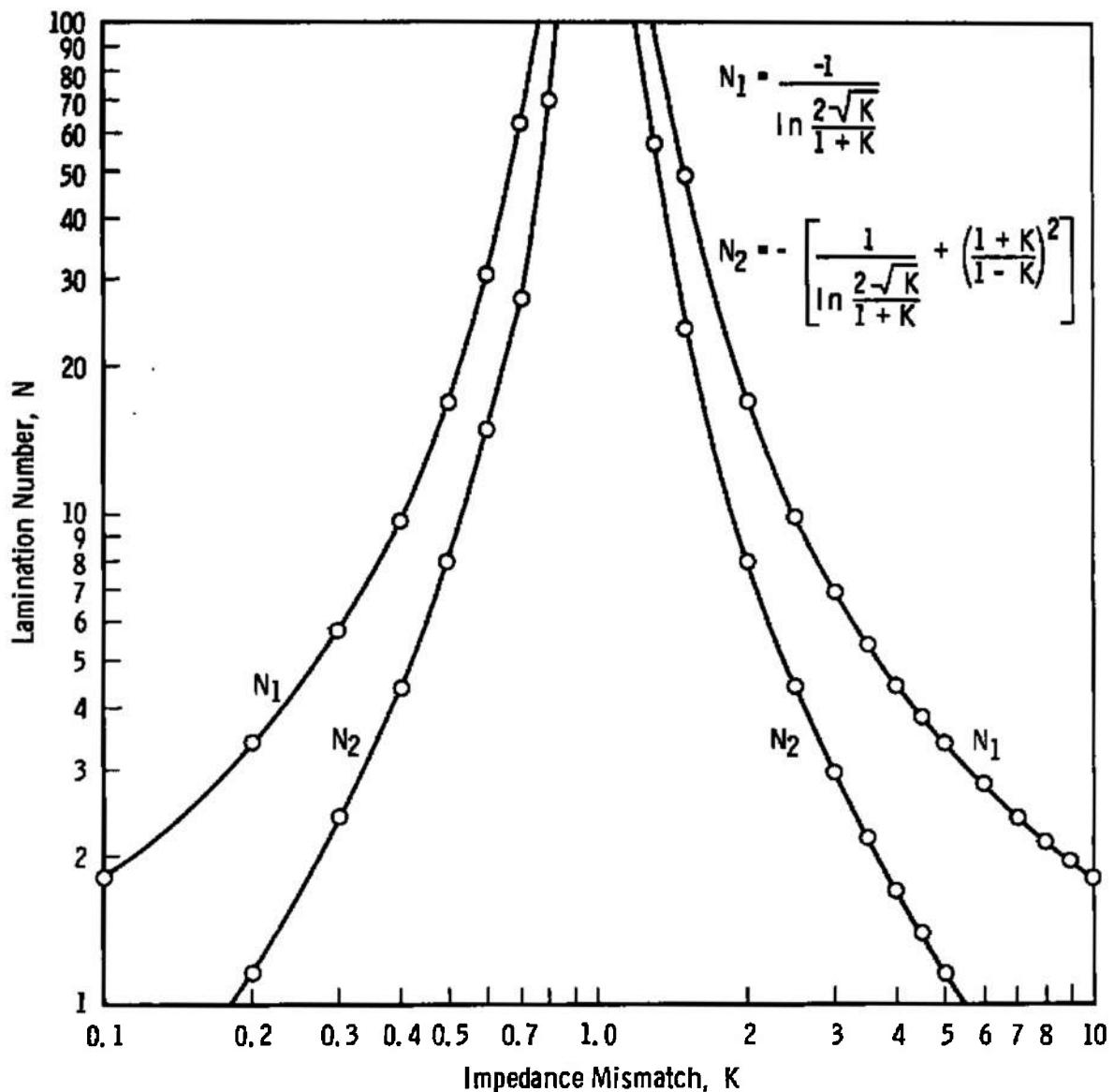


Fig. 19 Lamination Number at which Pulse Amplitude is a Maximum

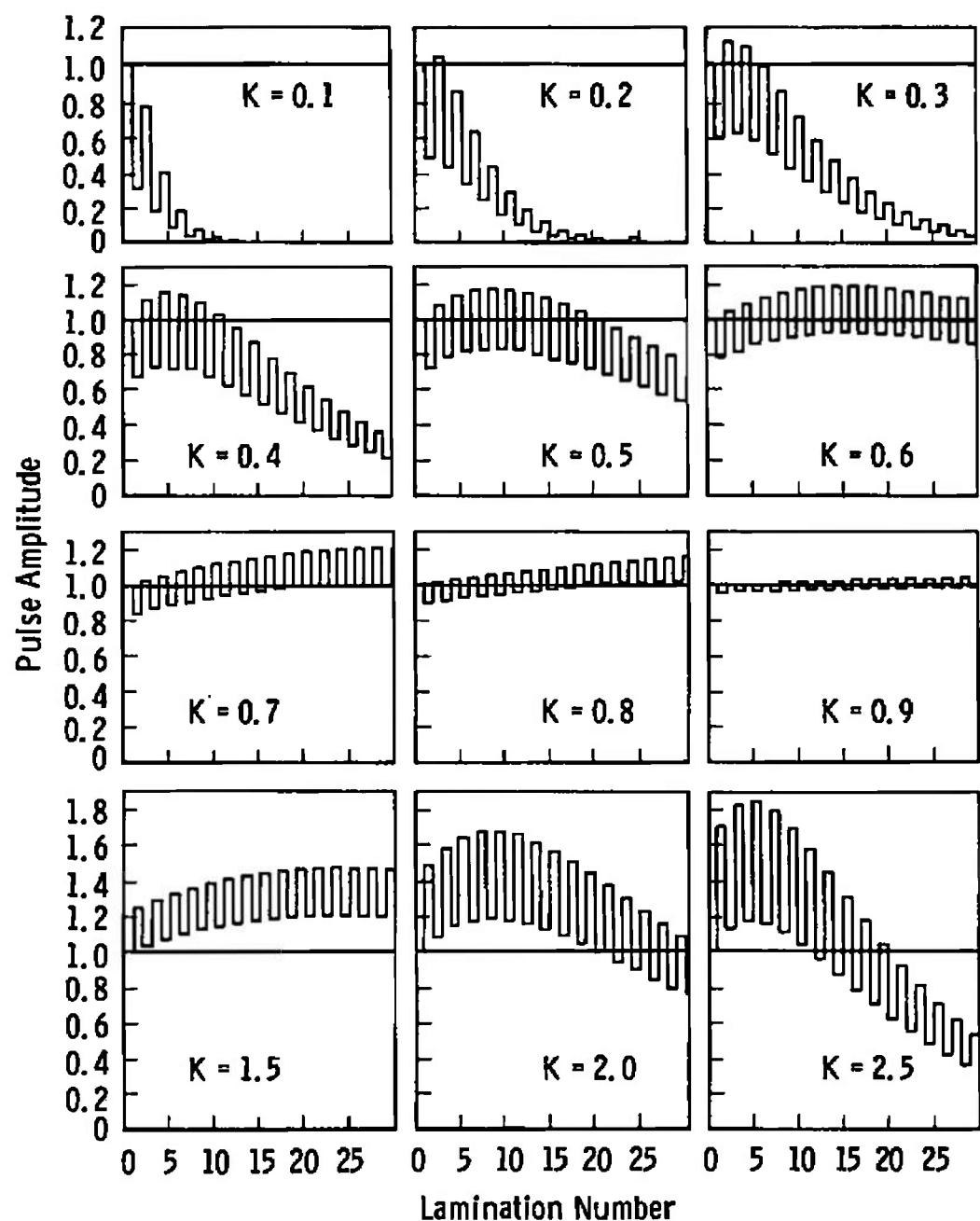


Fig. 20 Sum of Primary and Secondary Pulse Amplitudes

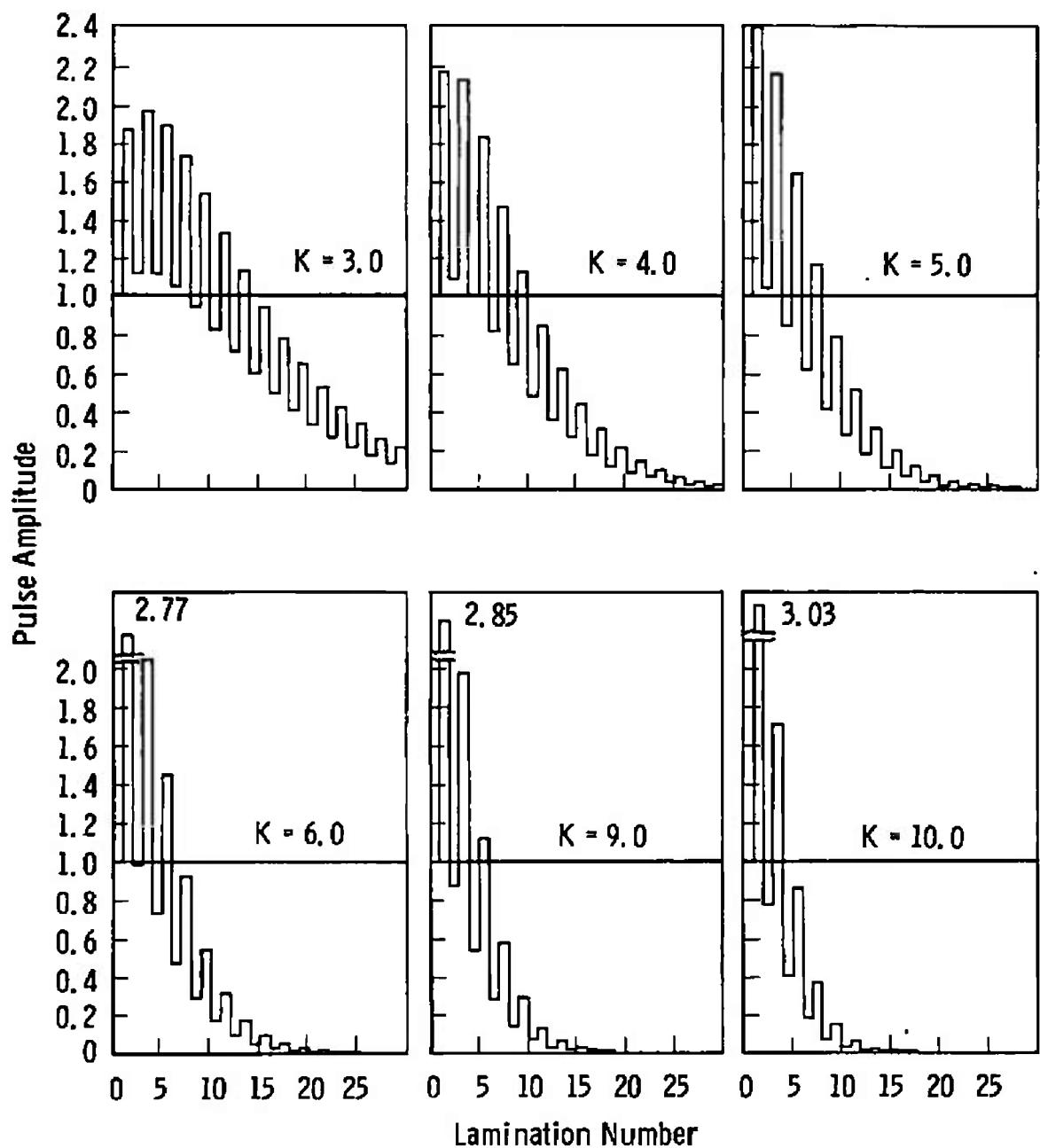


Fig. 20 Concluded

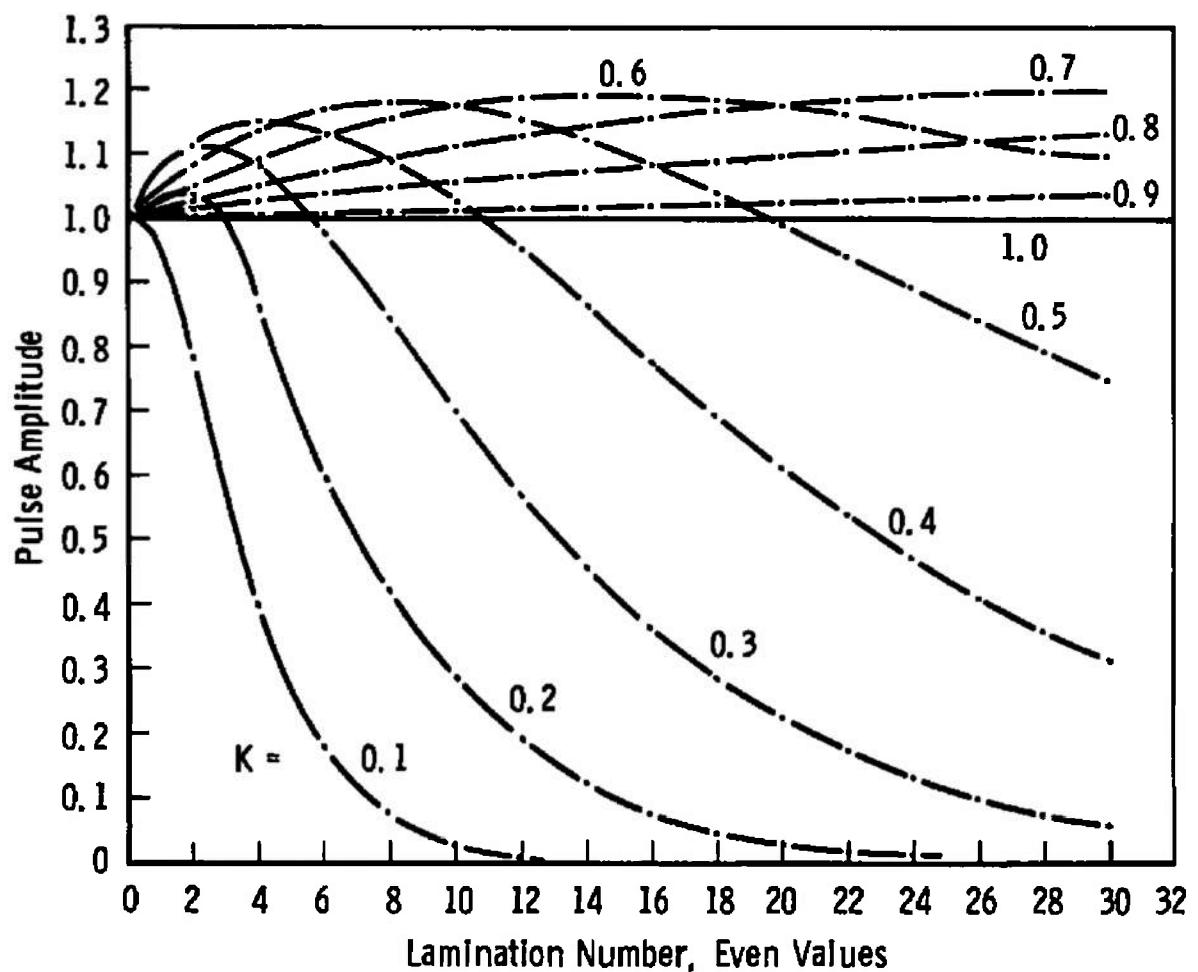


Fig. 21 Effect of Impedance Mismatch upon Sum of Primary and Secondary Pulse Amplitudes

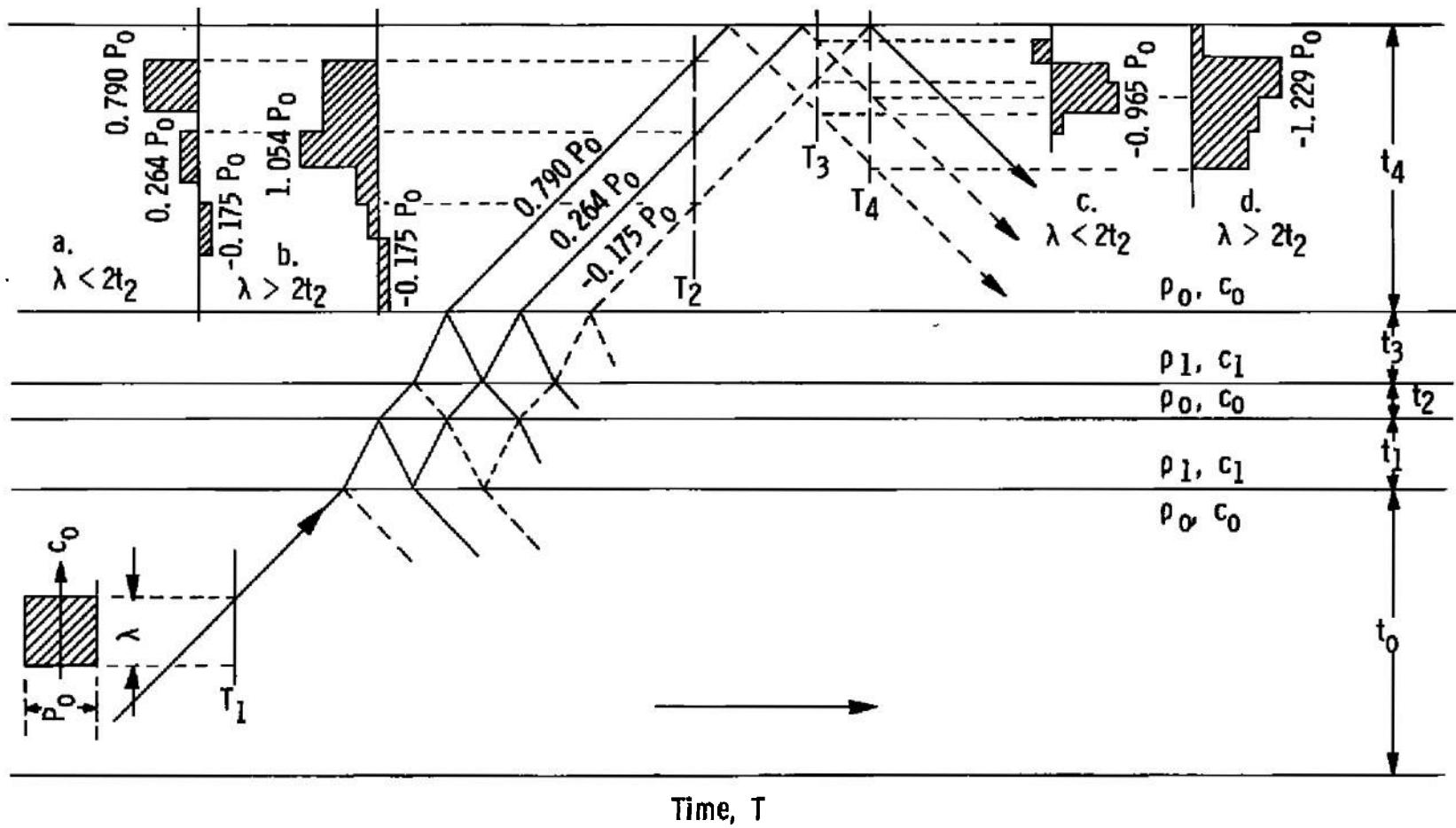


TABLE I
PROPERTIES OF SOME TYPICAL MATERIALS

	Density, ρ , $1b\text{-sec}^2\text{-ft}^{-4}$	Wave Velocity, c , $ft\text{-sec}^{-1}$	Characteristic Impedance, ρc , $1b\text{-sec}\text{-ft}^{-3}$
Steel	15.2	19,500	29.6×10^4
Silver	20.4	13,400	27.3×10^4
Copper	17.2	14,000	24.1×10^4
Lead	22.0	7,100	15.6×10^4
Mercury	26.3	4,500	11.8×10^4
Glass	5.0	22,300	11.15×10^4
Aluminum	5.22	20,900	10.9×10^4
Lucite	2.3	8,700	2.0×10^4
Water	1.94	5,200	1.01×10^4

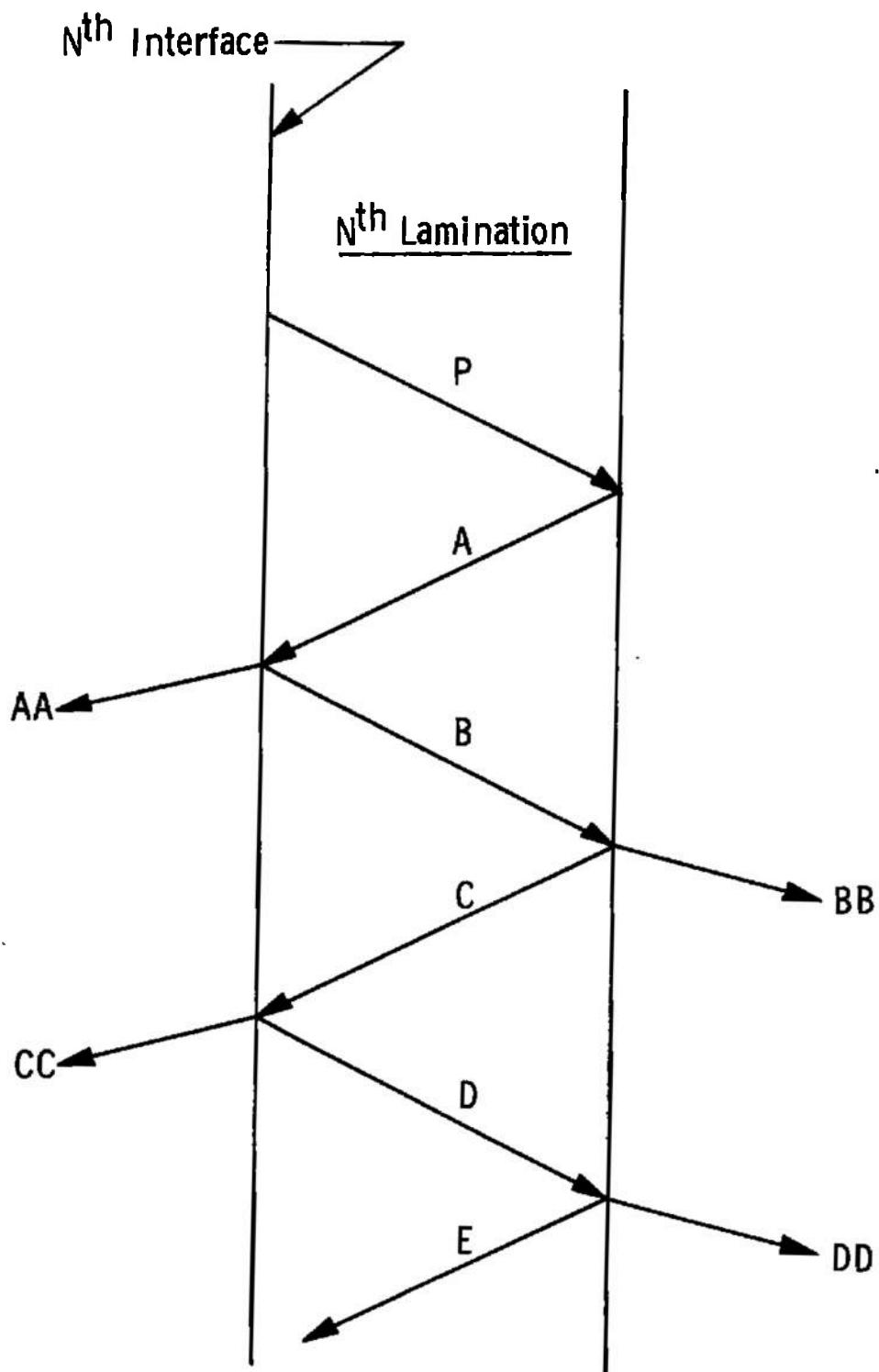
TABLE II
IMPEDANCE MISMATCH FOR VARIOUS COMBINATIONS OF MATERIALS.
IMPEDANCE MISMATCH, $K = \left(\frac{\rho_t C_t}{\rho_o C_o} \right)$

1st ↓ \ 2nd →	Steel	Silver	Copper	Lead	Mercury	Glass	Aluminum	Lucite	Water
Steel	-	0.92	0.81	0.53	0.40	0.38	0.37	0.068	0.034
Silver	1.08	-	0.88	0.57	0.43	0.41	0.40	0.073	0.037
Copper	1.23	1.13	-	0.65	0.49	0.46	0.45	0.083	0.042
Lead	1.90	1.75	1.54	-	0.76	0.71	0.70	0.128	0.065
Mercury	2.51	2.31	2.04	1.32	-	0.94	0.92	0.169	0.086
Glass	2.65	2.45	2.16	1.40	1.06	-	0.98	0.179	0.091
Aluminum	2.72	2.50	2.21	1.43	1.08	1.02	-	0.183	0.093
Lucite	14.8	13.65	12.0	7.80	5.90	5.57	5.45	-	0.51
Water	29.3	27.0	23.9	15.4	11.68	11.00	10.8	1.98	-

APPENDIX I
VALUES OF PULSE AMPLITUDES IN LAMINATED MATERIAL

NOTE: Use of the values presented in this appendix must be undertaken with the recognition that their derivation has been based upon the assumptions set forth in Section II of the text.

Guide to the Use of the Appendix



K = +10 N = +1	K = +10 N = +6	K = +10 N = +11
$P = +18141819$ $AA = +27047334$ $B = +14876034$ $B = +12171300$ $BB = +22129636$ $CC = +18106065$ $C = +09958256$ $O = +08147729$ $DD = +14814053$ $E = +06866324$	$P = +026124633$ $AA = -00537416$ $A = -02995790$ $B = +02410274$ $BB = +00439704$ $CC = -00349758$ $C = +01976669$ $D = +01618911$ $DD = +00294347$ $E = +01324364$	$P = +00071781$ $AA = +00106781$ $A = +00058730$ $B = +00046051$ $BB = +00087367$ $CC = +00071482$ $C = +00039315$ $O = +00032166$ $DO = +00058485$ $E = +00026318$
K = +10 N = +2	K = +10 N = +7	K = +10 N = +12
$P = +33057853$ $AA = -04917697$ $A = -27047234$ $B = +22129437$ $BB = +04023571$ $CC = -03292012$ $C = +18106066$ $D = +14814054$ $DD = +02593465$ $E = -12120589$	$P = +00656842$ $AA = +00977121$ $A = +00537416$ $B = +00439704$ $BB = +00799462$ $CC = +00654105$ $C = +00359758$ $D = +00294247$ $DD = +00535177$ $E = +00240829$	$P = +00120511$ $AA = -00019414$ $A = -00106781$ $B = +00087367$ $BB = +00015684$ $CC = -00012996$ $C = +00071482$ $O = +00039315$ $DO = +00010622$ $E = -00047851$
K = +10 N = +2	K = +10 N = +8	K = +10 N = +13
$P = +06010519$ $AA = +08941268$ $A = +04917697$ $B = +04023570$ $BB = +07215583$ $CC = +0985477$ $C = +02292012$ $O = +02693464$ $DD = +04897208$ $E = +02203743$	$P = +01194259$ $AA = -00177658$ $A = -00977121$ $B = +00799462$ $BB = +00145356$ $CC = +00118928$ $C = +00654105$ $O = +00535177$ $DO = +00097305$ $E = -00437872$	$P = +00022729$ $AA = +00025299$ $A = +00019814$ $B = +00015884$ $BB = +00028881$ $CC = +00022830$ $C = +00012996$ $O = +00010632$ $DO = +00019354$ $E = +00008700$
K = +10 N = +4	K = +10 N = +9	K = +10 N = +14
$P = +10926217$ $AA = -01629685$ $A = -08941268$ $B = +07315582$ $BB = +01320104$ $CC = +01088268$ $C = +05985477$ $O = +04897208$ $DD = +00890401$ $E = +04006604$	$P = +00237138$ $AA = +00322015$ $A = +00177658$ $B = +00149256$ $BB = +00264285$ $CC = +00216292$ $C = +00118928$ $D = +00097305$ $DD = +00176918$ $E = +00079613$	$P = +00043144$ $AA = -00006418$ $A = -00034299$ $B = +0028881$ $BB = +00005251$ $CC = +00004296$ $C = +00019334$ $O = +00015818$ $DO = +00003515$
K = +10 N = +5	K = +10 N = +10	K = +10 N = +15
$P = +01966948$ $AA = +02955791$ $A = +01629685$ $B = +01330106$ $BB = +02418274$ $CC = +01978670$ $C = +01066268$ $O = +00890401$ $DD = +01618911$ $E = +00728510$	$P = +00394796$ $AA = -00058720$ $A = -00222015$ $B = +00264285$ $BB = +00048051$ $CC = +00039315$ $C = -00216223$ $D = +00176918$ $DD = +00022166$ $E = -00146751$	$P = +0007844$ $AA = +00011669$ $A = +0006418$ $B = +00005251$ $BB = +00009547$ $CC = +00007811$ $C = +00004296$ $D = +00003515$ $DO = +00006391$ $E = +00002876$

$K = +10$	$N = +16$	$K = +10$	$N = +21$	$K = +10$	$N = +26$
AA = -0.00002121	P = +.00014262 A = -.00013669 B = +.00009547 C = -.00007811 D = +.00006391 E = -.00005229	AA = +.00000421 A = +.00000231 B = +.00000169 C = +.00000155 D = +.00000126 E = +.00000103	P = +.00000283 A = +.00000231 B = +.00000169 BB = +.00000344 C = +.00000155 D = +.00000126 E = +.00000103	AA = -.00000008 A = -.00000046 B = +.00000037 BB = +.00000006 C = -.00000030 D = +.00000025 E = -.00000020	P = +.00000056 A = -.00000046 B = +.00000037 BB = +.00000006 C = -.00000030 D = +.00000025 E = -.00000020
$K = +10$	$N = +17$	$K = +10$	$N = +22$	$K = +10$	$N = +27$
AA = +.00003857	P = +.00002593 A = +.00002121 B = +.00001735 BB = +.00003156 C = +.00001420 D = +.00001162 E = +.00000950	AA = -.00000076 A = -.00000021 B = +.00000344 BB = +.00000062 C = +.00000051 D = +.00000212 E = +.00000188	P = +.00000515 A = -.00000021 B = +.00000062 BB = +.00000041 C = +.00000010 D = +.00000004 E = +.00000003	AA = +.00000015 A = +.00000006 B = +.00000006 BB = +.00000012 C = +.00000005 D = +.00000004 E = +.00000003	P = +.00000010 A = +.00000006 B = +.00000006 BB = +.00000012 C = +.00000005 D = +.00000004 E = +.00000003
$K = +10$	$N = +18$	$K = +10$	$N = +23$	$K = +10$	$N = +28$
AA = -.00000701	P = +.00004714 A = -.00003557 B = +.00003156 BB = +.0000573 C = -.00002588 D = +.00002112 E = -.00001728	AA = +.00000139 A = +.00000076 B = +.00000062 BB = +.00000114 C = +.00000051 D = +.00000041 E = +.00000034	P = +.00000093 A = +.00000076 B = +.00000062 BB = +.00000076 C = +.00000051 D = +.00000041 E = +.00000034	AA = -.00000002 A = -.00000015 B = +.00000012 BB = +.00000002 C = -.00000010 D = +.00000008 E = -.00000006	P = +.00000018 A = -.00000015 B = +.00000012 BB = +.00000002 C = -.00000010 D = +.00000008 E = -.00000006
$K = +10$	$N = +19$	$K = +10$	$N = +24$	$K = +10$	$N = +29$
AA = +.00001275	P = +.00006647 A = +.00000701 B = +.00000573 BB = +.00001043 C = +.00000469 D = +.00000384 E = +.00000314	AA = -.00000025 A = -.00000139 B = +.00000114 BB = +.00000020 C = +.00000093 D = +.00000076 E = +.00000062	P = +.00000170 A = -.00000139 B = +.00000114 BB = +.00000020 C = +.00000093 D = +.00000076 E = +.00000062	AA = +.00000005 A = +.00000002 B = +.00000002 BB = +.00000004 C = +.00000001 D = +.00000001 E = +.00000001	P = +.00000003 A = +.00000002 B = +.00000002 BB = +.00000004 C = +.00000001 D = +.00000001 E = +.00000001
$K = +10$	$N = +20$	$K = +10$	$N = +25$	$K = +10$	$N = +30$
AA = -.00000231	P = +.00001558 A = -.00001275 B = +.00001043 BB = +.00000189 C = +.00000853 D = +.00000698 E = -.00000571	AA = +.00000046 A = +.0000025 B = +.0000020 BB = +.00000037 C = +.00000016 D = +.00000013 E = +.00000011	P = +.00000030 A = +.0000025 B = +.0000020 BB = +.00000037 C = +.00000016 D = +.00000013 E = +.00000011	AA = -.00000000 A = -.00000005 B = +.00000004 BB = +.00000000 C = -.00000003 D = +.00000002 E = -.00000002	P = +.00000006 A = -.00000005 B = +.00000004 BB = +.00000000 C = -.00000003 D = +.00000002 E = -.00000002

K	±.20	N	±1	K	±.20	N	±6	K	±.20	N	±11
AA	±.97057035	P	±.535959350	AA	±.022222220	P	±.171467172	AA	±.01960078	P	±.01764071
AA	±.97057035	A	±.222222220	BB	±.24691955	AA	±.03810394	A	±.114911181	A	±.011760471
CC	±.16460905	B	±.14816815	CC	±.09876542	B	±.07620787	BB	±.02940262	B	±.00784031
CC	±.16460905	C	±.09876542	CC	±.01699502	C	±.05080924	CC	±.00d71146	C	±.00522687
DO	±.00584561	DO	±.10975935	DO	±.00584561	D	±.03117016	DO	±.01129005	D	±.00548658
DO	±.00584561	E	±.04369574	E	±.02258011	E	±.02258011	E	±.00232505	E	±.00232505
K	±.20	N	±2	K	±.20	N	±7	K	±.20	N	±12
AA	±.12345678	P	±.555555592	AA	±.06350656	P	±.057155940	AA	±.006535559	P	±.02940118
AA	±.12345678	A	±.37037059	BB	±.08230452	AA	±.05810593	A	±.01960078	A	±.01960078
CC	±.05446968	B	±.2691336	CC	±.02822514	B	±.02940262	BB	±.042933771	B	±.01506719
CC	±.05446968	C	±.16460904	DO	±.03697979	C	±.01699508	CC	±.00290382	C	±.00871146
DO	±.03697979	D	±.07315957	DO	±.01129005	D	±.01681675	DO	±.00560764	D	±.00199566
DO	±.03697979	E	±.007315957	E	±.00752670	E	±.00752670	E	±.00367176	E	±.00367176
K	±.20	N	±5	K	±.20	N	±11	K	±.20	N	±13
AA	±.20576126	P	±.18516915	AA	±.02116865	P	±.095259485	AA	±.01068932	P	±.009680039
AA	±.20576126	A	±.12945677	BB	±.13717418	AA	±.063506555	A	±.006535359	A	±.006535359
CC	±.00144695	B	±.08230451	CC	±.009480837	B	±.042933770	BB	±.01411256	B	±.00435573
CC	±.00144695	C	±.05446967	DO	±.06096690	C	±.02822513	CC	±.00463970	C	±.00290362
DO	±.05446967	DO	±.03697979	DO	±.010681673	D	±.01681675	DO	±.00627225	D	±.00193586
DO	±.05446967	E	±.02498652	E	±.012944550	E	±.012944550	E	±.00129058	E	±.00129058
K	±.20	N	±4	K	±.20	N	±9	K	±.20	N	±14
AA	±.06858709	P	±.30864192	AA	±.05528142	P	±.05175527	AA	±.00362977	P	±.01635999
AA	±.06858709	A	±.20576128	BB	±.04572474	A	±.02116865	A	±.01068932	A	±.01068932
CC	±.05048315	B	±.15717419	BB	±.02032210	B	±.01411256	BB	±.02352094	B	±.00723565
CC	±.05048315	C	±.09144695	CC	±.01568063	C	±.009480857	CC	±.00161925	C	±.00461970
DO	±.06066630	DO	±.02032210	DO	±.00627225	D	±.010681675	DO	±.00627225	D	±.00522646
DO	±.06066630	E	±.00464420	E	±.00464420	E	±.00464420	E	±.00215907	E	±.00215907
K	±.20	N	±5	K	±.20	N	±10	K	±.20	N	±15
AA	±.11431182	P	±.10288066	AA	±.01176047	P	±.05292213	AA	±.00604982	P	±.00544666
AA	±.11431182	A	±.06656709	BB	±.07620788	A	±.03526142	A	±.00362977	A	±.00362977
CC	±.05080525	B	±.04572472	BB	±.03046315	B	±.02352094	BB	±.00784031	B	±.00241965
CC	±.05080525	C	±.02032210	DO	±.03987016	CC	±.00522687	C	±.00268872	C	±.00161323
DO	±.02032210	DO	±.01394606	E	±.01394606	D	±.01048375	DO	±.003684658	D	±.00179246
DO	±.02032210	E	±.00464420	E	±.00464420	E	±.00464420	E	±.00071199	E	±.00071199

K = +20		N = +16		K = +20		N = +21		K = +20		N = +26	
		P =	+.000907443			P =	+.00093358			P =	+.00048023
AA =	-.00201654	A =	-.000604962	AA =	+.00103731	A =	+.00062238	AA =	-.00010671	A =	-.00032014
BB =	+.00403308	BB =	+.00134438	CC =	+.00046102	B =	+.00041492	BB =	+.00069154	B =	+.00021343
CC =	-.00089624	C =	-.00268872	CC =	-.00046102	C =	+.00027661	CC =	-.00004743	C =	-.00014229
D =	+.00179248	DD =	+.00059749	D =	+.00018441	DD =	+.000030735	D =	+.00009486	DD =	+.00003162
E =	-.00119498			E =	+.00012294			E =	-.00005324		
K = +20		N = +17		K = +20		N = +22		K = +20		N = +27	
		P =	+.00302481			P =	+.00155597			P =	+.00016007
AA =	-.00336090	A =	+.00201654	AA =	-.00034577	A =	-.00103731	AA =	+.00017786	A =	+.00010671
BB =	+.00134438	BB =	+.00224050	CC =	-.00015367	B =	+.00069154	BB =	+.00023051	B =	+.00007114
CC =	+.00149373	C =	+.00059624	CC =	-.00015367	C =	-.00046102	CC =	+.00007905	C =	+.00004743
D =	-.00059749	DD =	-.00099582	D =	-.00030735	DD =	+.00010245	D =	+.00003182	DD =	+.00005270
E =	+.000319832			E =	-.00020490			E =	+.00002108		
K = +20		N = +18		K = +20		N = +23		K = +20		N = +28	
		P =	+.000504139			P =	+.00051865			P =	+.00026679
AA =	-.00112030	A =	-.000388090	AA =	+.00057628	A =	-.00034577	AA =	-.00005928	A =	-.00017786
BB =	+.00224050	BB =	+.00074686	CC =	+.00025912	B =	+.00023051	BB =	+.00038419	B =	+.00011857
CC =	-.00049791	C =	-.00149373	CC =	-.00025912	C =	+.00015367	CC =	-.00002635	C =	-.00007905
D =	+.00059749	DD =	+.00099582	D =	+.00010245	DD =	+.000017075	D =	+.00005270	DD =	+.00001756
E =	-.00066388			E =	+.00006830			E =	-.00003513		
K = +20		N = +19		K = +20		N = +24		K = +20		N = +29	
		P =	+.00168045			P =	+.000286442			P =	+.000088893
AA =	+.00186718	A =	+.00112030	AA =	-.00019209	A =	-.00057628	AA =	+.00009881	A =	+.00005928
BB =	+.00074686	BB =	+.00124477	CC =	-.00008531	B =	+.00038419	BB =	+.00012806	B =	+.00004952
CC =	+.00082985	C =	+.00049791	CC =	-.00008531	C =	-.00025912	CC =	+.00004391	C =	+.00002635
D =	+.00033194	DD =	+.00055323	D =	+.00017075	DD =	+.00005691	D =	+.00001756	DD =	+.00002927
E =	+.00022129			E =	-.00011383			E =	+.00001171		
K = +20		N = +20		K = +20		N = +25		K = +20		N = +30	
		P =	+.00280075			P =	+.00028814			P =	+.00014822
AA =	-.00062298	A =	-.00108716	AA =	+.00032015	A =	-.00019209	AA =	-.00003293	A =	-.00009881
BB =	+.00124477	BB =	+.00041492	CC =	-.00014229	B =	+.00012806	BB =	+.00021343	B =	+.00006587
CC =	-.00027661	C =	-.00082985	CC =	-.00014229	C =	+.00008537	CC =	-.00001463	C =	-.00004291
D =	+.00055323	DD =	+.00018441	D =	+.00005691	DD =	+.00009486	D =	+.00002927	DD =	+.00000975
E =	-.00036882			E =	+.00003794			E =	-.00001951		

K = +30		N = +1		K = +30		N = +6		K = +30		N = +11		
P =	+.68153044	P =	+.35000040	P =	+.08330580							
AA =	+.38233932	A =	+.24052069	AA =	-.08897051	A =	-.19274944	AA =	+.06901159	A =	+.04485751	
B =	+.13381883	BB =	+.20587912	CC =	-.02579818	B =	+.10379093	BB =	+.04790720	B =	+.02415404	
CC =	+.11085583	C =	+.07205629	D =	+.03009554	C =	-.05589173	CC =	+.02000928	C =	+.01300602	
D =	+.09879954	DD =	+.05969160	E =	-.01620529	D =	+.01589029	DD =	+.01389025	D =	+.00700324	
E =	+.02089206										EE =	+.00377097
K = +30		N = +2		K = +30		N = +7		K = +30		N = +12		
P =	+.71005913	P =	+.16523096	P =	+.12816432							
AA =	-.17646460	A =	-.08233993	AA =	+.19887771	A =	+.08897051	AA =	-.03189140	A =	-.06901155	
B =	+.20987513	BB =	+.09501929	CC =	+.03968643	B =	+.04790720	BB =	+.07370338	B =	+.03716006	
CC =	-.05116424	C =	+.11085584	D =	+.01589029	C =	+.02579618	CC =	-.00923504	C =	+.02000926	
D =	+.05969160	DD =	+.02754997	E =	-.00747938	D =	+.01589029	DD =	+.02136961	D =	+.01077422	
E =	-.05214163										E =	-.00580150
K = +30		N = +3		K = +30		N = +8		K = +30		N = +13		
P =	+.32771962	P =	+.25420148	P =	+.05915279							
AA =	+.27148370	A =	+.17646441	AA =	-.06317434	A =	-.12607772	AA =	+.04900228	A =	+.03189148	
B =	+.09501929	BB =	+.14618353	CC =	-.018311681	B =	+.07370338	BB =	+.03401694	B =	+.01715079	
CC =	+.07871420	C =	+.05116423	D =	+.02136962	C =	+.03968643	CC =	+.01420776	C =	+.00923504	
D =	+.02754997	DD =	+.008238657	E =	-.01150671	D =	+.00986290	DD =	+.00986290	D =	+.00697271	
E =	+.001489460										E =	+.00267761
K = +30		N = +4		K = +30		N = +9		K = +30		N = +14		
P =	+.50418404	P =	+.11752376	P =	+.09100424							
AA =	-.12530016	A =	-.27148371	AA =	+.09719127	A =	+.06317433	AA =	-.02261843	A =	-.04900228	
B =	+.14618353	BB =	+.08746992	CC =	+.02817971	B =	+.03401694	BB =	+.05233376	B =	+.02630584	
CC =	-.03612963	C =	-.07871421	D =	+.00986290	C =	+.018311681	CC =	-.00659743	C =	-.01420776	
D =	+.04238457	DD =	+.01998211	E =	+.00531079	D =	+.00986290	DD =	+.01517369	D =	+.00765033	
E =	-.02282246										E =	-.00411941
K = +30		N = +5		K = +30		N = +10		K = +30		N = +15		
P =	+.23270050	P =	+.18049809	P =	+.04200196							
AA =	+.19276967	A =	+.12530016	AA =	-.04685751	A =	-.09719127	AA =	+.01479452	A =	+.02261644	
B =	+.06746931	BB =	+.10379894	CC =	-.01300602	B =	+.05233376	BB =	+.0215404	B =	+.01217806	
CC =	+.02558174	C =	+.03652963	D =	+.01517369	C =	-.02817971	CC =	+.01008035	C =	+.00655742	
D =	+.01956210	DD =	+.03009555	E =	-.00817045	D =	+.01517369	DD =	+.00700324	D =	+.00543210	
E =	+.01053344										E =	+.00190126

K = +30	N = +16	P = +06461839 A = -03479451 B = +01873551 C = -01008875 D = +00543218 E = -00292502	AA = -01605900 CC = -00465616	BB = +00864715 DO = +00250716	AA = +01245645 CC = +00361163	BB = +00670731 DO = +00194472	P = +01505671 A = +00809669 B = +00435975 C = +00234756 D = +00126407 E = +00068065	AA = -00289862 CC = -00084042	BB = +00182092 DO = +00098049	P = +01166349 A = -00428034 B = +00238172 C = -00182092 D = +00052796	BB = +00156079 OO = +00045253
K = +30	N = +17	P = +02982387 A = +01605901 B = +00864715 C = +00465616 D = +00250716 E = +00135001	AA = +02470616 CC = +00716332	BB = +01330352 DO = +00385717	AA = -00574913 CC = -00166690	BB = +00309568 DO = +00089756	P = +02313340 A = -01245645 B = +00670731 C = -00361163 D = +00194472 E = -00104716	AA = +00465941 CC = +00129296	BB = +00156079 DO = +00089756	P = +00593315 A = +00289862 B = +00156079 C = +00068046 D = +00045253 E = +00023637	BB = +00240122 DO = +00069621
K = +30	N = +18	P = +04588288 A = -02470617 B = +01330332 C = -00716332 D = +00385717 E = -00207694	AA = -01140284 CC = -00330615	BB = +00613999 DO = +00178023	AA = +00884481 CC = +00256447	BB = +00476259 DO = +00138087	P = +01067695 A = +00574913 B = +00309568 C = +00166690 D = +00089756 E = +00040330	AA = -00205819 CC = -00059675	BB = +00129296 DO = +00069621	P = +00820177 A = -00445941 B = +00240122 C = -00129296 D = +00069621 E = -00037480	BB = +00110825 OO = +00032132
K = +30	N = +19	P = +02117671 A = +01140284 B = +00613999 C = +00330615 D = +00178023 E = +00095858	AA = -01754284 CC = -00508638	BB = +00944614 DO = +00273882	AA = -00408222 CC = -00118160	BB = +00219811 DO = +00063732	P = +01642607 A = -00884481 B = +00476259 C = -00256447 D = +00138086 E = -00074354	AA = +00316644 CC = +00091008	BB = +00110825 DO = +00059675 OO = +00032132 E = +00017302	P = +00382235 A = +00205819 B = +00110825 C = +00059675 D = +00032132 E = +00017302	BB = +00170501 OO = +00049435
K = +30	N = +20	P = +03257956 A = -01754284 B = +00944614 C = +00508638 D = +00273882 E = -000147475	AA = -00809669 CC = -00234756	BB = +00435975 DO = +00126407	AA = +00628034 CC = +00182092	BB = +003380172 DO = +00098049	P = +00750127 A = +00408222 B = +00219812 C = +00118360 D = +00063732 E = +00034317	AA = -00146143 CC = -00042373	BB = +00170501 DO = +00091808 OO = +00049435 E = -00026618	P = +0088054 A = -00316644 B = +00170501 C = -00091808 D = +00049435 E = -00026618	BB = +00078692 OO = +00022816

$K = +40$	$N = +1$	$K = +40$	$N = +6$	$K = +40$	$N = +11$	$K = +40$	$N = +12$
		$P = +57142853$ $AA = +.34905420$ $CC = +.06425895$	$P = +54599096$ $AA = -.13522228$ $CC = -.02446939$	$P = +20714850$ $AA = +.12682588$ $CC = +.02329447$	$P = +.00877784$ $AA = +.03804764$ $CC = +.01650615$	$P = +.05435577$ $AA = +.00998334$ $CC = +.00299500$	
		$A = +24689794$ $B = +.10405626$ $C = +.04498125$ $D = +.01927767$ $E = +.00826186$	$A = -.23115898$ $B = +.09991670$ $C = -.04282144$ $D = +.01835204$ $E = -.00786516$	$B = +.05709525$ $DD = +.01048688$	$B = +.012682588$ $DD = +.01498126$	$BB = +.05435577$ $DD = +.00998334$	
		$BB = +.14993751$ $DD = +.02753954$					
$K = +40$	$N = +2$	$K = +40$	$N = +7$	$K = +40$	$N = +13$	$K = +40$	$N = +14$
		$P = +81632650$ $AA = -.19991670$ $CC = -.03671939$	$P = +31085195$ $AA = +.19031751$ $CC = +.036495827$	$P = +29592615$ $AA = -.072467171$ $CC = +.01991112$	$P = +.12682488$ $AA = +.05435377$ $CC = +.02329447$	$P = +.05435577$ $AA = +.01998334$ $CC = +.00427897$	
		$A = +.34995421$ $B = +.14993751$ $C = +.04498125$ $D = +.02753954$ $E = +.01180260$	$A = +.13322226$ $B = +.05709525$ $C = +.02446939$ $D = +.01048688$ $E = +.09449437$	$B = +.081156464$ $DD = +.01498126$	$B = +.01991112$ $DD = +.00856072$	$BB = +.03305930$ $DD = +.00570476$	
		$BB = +.080967858$ $DD = +.01573688$					
$K = +40$	$N = +3$	$K = +40$	$N = +8$	$K = +40$	$N = +13$	$K = +40$	$N = +14$
		$P = +46567274$ $AA = +.28539524$ $CC = +.05265626$	$P = +44407423$ $AA = -.1087527$ $CC = -.01997501$	$P = +16910066$ $AA = +.10955101$ $CC = +.01901589$	$P = +.07247171$ $AA = +.05105950$ $CC = +.01311113$	$P = +.04437043$ $AA = +.00570476$ $CC = +.00244490$	
		$A = +.19991670$ $B = +.08567857$ $C = +.03671939$ $D = +.01973688$ $E = +.00674457$	$A = -.19031752$ $B = +.08156465$ $C = +.03495627$ $D = +.01498126$ $E = -.00642058$	$B = +.04660837$ $DD = +.00856072$	$B = +.01901589$ $DD = +.00570476$	$BB = +.04437043$ $DD = +.00814967$	
		$BB = +.12239795$ $DD = +.022468125$					
$K = +40$	$N = +4$	$K = +40$	$N = +9$	$K = +40$	$N = +14$	$K = +40$	$N = +15$
		$P = +66638890$ $AA = -.16319729$ $CC = +.02997501$	$P = +25575667$ $AA = +.15536122$ $CC = +.02853973$	$P = +24157259$ $AA = +.05941659$ $CC = +.010866422$	$P = +.10555101$ $AA = +.046437042$ $CC = +.01015189$	$P = +.02535453$ $AA = +.01066422$ $CC = +.00814967$	$P = +.0591657$ $AA = +.02535453$ $CC = +.00666279$
		$A = -.28559524$ $B = +.12239795$ $C = +.05245626$ $D = +.022468125$ $E = +.0063482$	$B = +.04660836$ $C = +.01997501$ $D = +.00856071$ $E = +.00566887$	$B = +.06656338$ $DD = +.01222959$	$B = +.010866422$ $DD = +.00698834$	$BB = +.01015189$ $DD = +.00666279$	
		$BB = +.06994169$ $DD = +.01204645$					
$K = +40$	$N = +5$	$K = +40$	$N = +10$	$K = +40$	$N = +15$	$K = +40$	$N = +16$
		$P = +38079569$ $AA = +.23513690$ $CC = +.04282144$	$P = +56290450$ $AA = +.08877784$ $CC = +.01630613$	$P = +15804135$ $AA = +.08451510$ $CC = +.01552318$	$P = +.0591657$ $AA = +.02535453$ $CC = +.01066422$	$P = +.0591657$ $AA = +.02535453$ $CC = +.01066422$	$P = +.03622076$ $AA = +.00666279$ $CC = +.00199583$
		$A = +.16319729$ $B = +.06994165$ $C = +.02997501$ $D = +.01204645$ $E = +.00550581$	$B = +.06656337$ $C = +.02855573$ $D = +.01222959$ $E = +.00524125$	$B = +.03804764$ $DD = +.00698834$	$B = +.01630613$ $DD = +.00698834$	$BB = +.03622076$ $DD = +.00666279$	
		$BB = +.09991670$ $DD = +.01835204$					

<p>$K = +40$ $N = +16$</p> <p>AA = -0.04829434 BB = +0.08451510 CC = +0.00887039 DD = -0.01552318 EE = +0.00665278 EE = -0.00285119</p>	<p>$K = +40$ $N = +21$</p> <p>AA = +0.04597545 BB = +0.01379263 CC = +0.00844447 DD = +0.00293936 EE = +0.00108571</p>	<p>$K = +40$ $N = +26$</p> <p>AA = +0.01750717 BB = +0.01970376 CC = +0.00321560 DD = +0.00241176 EE = +0.00103558</p>
<p>$K = +40$ $N = +17$</p> <p>AA = +0.00899192 BB = +0.04829434 CC = +0.01267198 DD = +0.00543085 EE = +0.00162925</p>	<p>$K = +40$ $N = +22$</p> <p>AA = -0.02627168 BB = +0.02956796 CC = +0.00402541 DD = +0.00361905 EE = +0.00159102</p>	<p>$K = +40$ $N = +27$</p> <p>AA = +0.02501023 BB = +0.01125920 CC = +0.00459371 DD = +0.00205603 EE = +0.00090562</p>
<p>$K = +40$ $N = +18$</p> <p>AA = -0.03942399 BB = +0.01689598 CC = +0.00124113 DD = +0.00310334 EE = +0.00292750</p>	<p>$K = +40$ $N = +23$</p> <p>AA = +0.03753097 BB = +0.00689344 CC = +0.00266003 DD = +0.00295433 EE = +0.00088629</p>	<p>$K = +40$ $N = +28$</p> <p>AA = +0.01429156 BB = +0.01605470 CC = +0.00262408 DD = +0.00156873 EE = +0.00084374</p>
<p>$K = +40$ $N = +19$</p> <p>AA = +0.05631993 BB = +0.03542395 CC = +0.01036647 DD = +0.00510334 EE = +0.00133000</p>	<p>$K = +40$ $N = +24$</p> <p>AA = -0.02146626 BB = +0.00919125 CC = +0.00393911 DD = +0.00168819 EE = -0.00126614</p>	<p>$K = +40$ $N = +29$</p> <p>AA = +0.02041651 BB = +0.00612495 CC = +0.00374997 DD = +0.00112499 EE = +0.00048213</p>
<p>$K = +40$ $N = +20$</p> <p>AA = -0.03218281 BB = +0.05631992 CC = +0.00591112 DD = +0.00443334 EE = -0.00190000</p>	<p>$K = +40$ $N = +25$</p> <p>AA = +0.03063754 BB = +0.00919126 CC = +0.00562730 DD = +0.00241170 EE = +0.00072351</p>	<p>$K = +40$ $N = +30$</p> <p>AA = -0.01166658 BB = +0.01313037 CC = +0.00214284 DD = +0.00160713 EE = +0.00068877</p>

$K = +0.50$	$N = +1$	$P = +0.66666663$	$A = +0.22222221$	$B = +0.074077406$	$BB = +0.09876542$	$AA = -0.15607374$	$P = +0.70233385$	$A = -0.23411061$	$B = +0.07803687$	$BB = +0.05202458$	$AA = +0.16442395$	$P = +0.36995255$	$A = +0.12331752$
$AA = +0.29629627$						$CC = +0.03292180$					$CC = +0.01734192$		
$CC = +0.03292180$						$B = +0.02466135$					$B = +0.02601279$		
$B = +0.00623069$						$D = +0.01097395$					$D = +0.00 87076$		
$E = +0.00274948$								$E = -0.00289029$					
$K = +0.50$	$N = +2$	$P = +0.88888884$	$A = -0.29629628$	$B = +0.09876542$	$BB = +0.06304361$	$AA = +0.20809854$	$P = +0.46822127$	$A = +0.15607376$	$B = +0.05202458$	$BB = +0.06938611$	$AA = -0.10961956$	$P = +0.49327003$	$A = -0.16442394$
$AA = -0.19733068$						$CC = -0.02194787$					$CC = +0.02932203$		
$CC = -0.02194787$						$C = +0.01097393$					$C = +0.01734152$		
$D = +0.01097393$						$E = +0.00731595$					$D = +0.00578050$		
$E = -0.00365797$											$E = +0.00192683$		
$K = +0.50$	$N = +3$	$P = +0.59209250$	$A = +0.19755308$	$B = +0.069584361$	$BB = +0.08779148$	$AA = +0.15873223$	$P = +0.62429499$	$A = -0.20809833$	$B = +0.06938610$	$BB = +0.04624407$	$AA = +0.14615409$	$P = +0.32884670$	$A = +0.10961557$
$AA = +0.26357644$						$CC = +0.02926382$					$CC = +0.01541469$		
$CC = +0.02926382$						$C = +0.02194787$					$C = +0.02312203$		
$D = +0.00751593$						$E = +0.00975460$					$D = +0.00770734$		
$E = +0.00245865$											$E = -0.00256931$		
$K = +0.50$	$N = +4$	$P = +0.79012534$	$A = -0.17556296$	$B = +0.08779148$	$BB = +0.05852765$	$AA = +0.18497626$	$P = +0.41615463$	$A = +0.13877221$	$B = +0.04624407$	$BB = +0.06165876$	$AA = -0.09745608$	$P = +0.43846424$	$A = -0.14615408$
$AA = -0.17556296$						$CC = -0.01950921$					$CC = +0.02055292$		
$CC = -0.01950921$						$C = +0.02926382$					$C = +0.01541469$		
$D = +0.00975460$						$E = +0.00450307$					$D = +0.00511823$		
$E = -0.00352193$											$E = +0.00171274$		
$K = +0.50$	$N = +5$	$P = +0.52674895$	$A = +0.23411062$	$B = +0.17556297$	$BB = +0.07803687$	$AA = +0.12331752$	$P = +0.55492681$	$A = -0.10497627$	$B = +0.06165875$	$BB = +0.04110583$	$AA = +0.12991474$	$P = +0.29230819$	$A = +0.09745606$
$AA = +0.23411062$						$CC = +0.02601229$					$CC = +0.01370194$		
$CC = +0.02601229$						$C = +0.01950921$					$C = +0.02055291$		
$D = +0.00650307$						$E = +0.00216769$					$D = +0.00685097$		
$E = +0.00216769$											$E = -0.00228363$		
$K = +0.50$	$N = +6$	$P = +0.50$	$N = +9$	$P = +0.50$	$N = +10$	$P = +0.50$	$N = +11$	$P = +0.50$	$N = +12$	$P = +0.50$	$N = +13$	$P = +0.50$	$N = +14$
$AA = +0.29629627$						$AA = +0.15607374$					$AA = +0.10961956$		
$CC = +0.03292180$						$CC = +0.01734192$					$CC = +0.012117950$		
$B = +0.00623069$						$B = +0.00 87076$					$B = +0.00770734$		
$E = +0.00274948$						$E = -0.00289029$					$E = +0.00192683$		
$K = +0.50$	$N = +7$	$P = +0.46822127$	$A = +0.15607376$	$B = +0.05202458$	$BB = +0.06938611$	$AA = +0.10961956$	$P = +0.49327003$	$A = -0.16442394$	$B = +0.05480798$	$BB = +0.03653652$	$AA = +0.14615409$	$P = +0.32884670$	$A = +0.10961557$
$AA = -0.15607376$						$CC = +0.02932203$					$CC = +0.012117950$		
$CC = +0.02932203$						$C = +0.01734152$					$C = +0.01217950$		
$D = +0.00578050$						$E = +0.00192683$					$D = +0.00465983$		
$E = -0.00202991$											$E = +0.00133227$		
$K = +0.50$	$N = +8$	$P = +0.62429499$	$A = -0.20809833$	$B = +0.06938610$	$BB = +0.04624407$	$AA = +0.14615409$	$P = +0.32884670$	$A = +0.10961557$	$B = +0.03653652$	$BB = +0.04871602$	$AA = +0.14615409$	$P = +0.32884670$	$A = +0.10961557$
$AA = -0.20809833$						$CC = +0.01623934$					$CC = +0.00541311$		
$CC = +0.01623934$						$C = +0.01217950$					$C = +0.00465983$		
$D = +0.00685097$						$E = +0.00133227$					$E = +0.00133227$		
$K = +0.50$	$N = +9$	$P = +0.41615463$	$A = +0.13877221$	$B = +0.04624407$	$BB = +0.06165876$	$AA = +0.09745608$	$P = +0.43846424$	$A = -0.14615408$	$B = +0.04671802$	$BB = +0.03247868$	$AA = +0.12991474$	$P = +0.29230819$	$A = +0.09745606$
$AA = -0.13877221$						$CC = +0.01082622$					$CC = +0.01443497$		
$CC = +0.01082622$						$C = +0.01623934$					$C = +0.01623934$		
$D = +0.00541311$						$E = +0.00180437$					$E = +0.00180437$		
$K = +0.50$	$N = +10$	$P = +0.41615463$	$A = +0.13877221$	$B = +0.04624407$	$BB = +0.06165876$	$AA = +0.09745608$	$P = +0.43846424$	$A = -0.14615408$	$B = +0.04671802$	$BB = +0.03247868$	$AA = +0.12991474$	$P = +0.29230819$	$A = +0.09745606$
$AA = -0.13877221$						$CC = +0.01082622$					$CC = +0.01443497$		
$CC = +0.01082622$						$C = +0.01623934$					$C = +0.01623934$		
$D = +0.00541311$						$E = +0.00180437$					$E = +0.00180437$		
$K = +0.50$	$N = +11$	$P = +0.46822127$	$A = +0.10961956$	$B = +0.06938611$	$BB = +0.04110583$	$AA = +0.12991474$	$P = +0.43846424$	$A = -0.14615408$	$B = +0.04671802$	$BB = +0.03430491$	$AA = +0.12991474$	$P = +0.29230819$	$A = +0.09745606$
$AA = -0.10961956$						$CC = +0.01082622$					$CC = +0.01443497$		
$CC = +0.01082622$						$C = +0.01623934$					$C = +0.01623934$		
$D = +0.00541311$						$E = +0.00180437$					$E = +0.00180437$		
$K = +0.50$	$N = +12$	$P = +0.49327003$	$A = -0.16442395$	$B = +0.06938611$	$BB = +0.04110583$	$AA = +0.14615409$	$P = +0.32884670$	$A = +0.10961557$	$B = +0.03653652$	$BB = +0.04871602$	$AA = +0.14615409$	$P = +0.32884670$	$A = +0.10961557$
$AA = -0.16442395$						$CC = +0.01082622$					$CC = +0.01443497$		
$CC = +0.01082622$						$C = +0.01623934$					$C = +0.01623934$		
$D = +0.00541311$						$E = +0.00180437$					$E = +0.00180437$		
$K = +0.50$	$N = +13$	$P = +0.32884670$	$A = -0.16442395$	$B = +0.06938611$	$BB = +0.04110583$	$AA = +0.14615409$	$P = +0.32884670$	$A = +0.10961557$	$B = +0.03653652$	$BB = +0.04871602$	$AA = +0.14615409$	$P = +0.32884670$	$A = +0.10961557$
$AA = -0.16442395$						$CC = +0.01082622$					$CC = +0.01443497$		
$CC = +0.01082622$						$C = +0.01623934$					$C = +0.01623934$		
$D = +0.00541311$						$E = +0.00180437$					$E = +0.00180437$		
$K = +0.50$	$N = +14$	$P = +0.43846424$	$A = -0.14615408$	$B = +0.04671802$	$BB = +0.03247868$	$AA = +0.12991474$	$P = +0.29230819$	$A = +0.09745606$	$B = +0.04671802$	$BB = +0.03430491$	$AA = +0.12991474$	$P = +0.29230819$	$A = +0.09745606$
$AA = -0.14615408$						$CC = +0.01082622$					$CC = +0.01443497$		
$CC = +0.01082622$						$C = +0.01623934$					$C = +0.01623934$		
$D = +0.00541311$						$E = +0.00180437$					$E = +0.00180437$		
$K = +0.50$	$N = +15$	$P = +0.29230819$	$A = +0.09745606$	$B = +0.04671802$	$BB = +0.03247868$	$AA = +0.12991474$	$P = +0.29230819$	$A = +0.09745606$	$B = +0.04671802$	$BB = +0.03430491$	$AA = +0.12991474$	$P = +0.29230819$	$A = +0.09745606$
$AA = +0.09745606$						$CC = +0.01082622$					$CC = +0.01443497$		
$CC = +0.01082622$						$C = +0.01623934$					$C = +0.01623934$		
$D = +0.00541311$						$E = +0.00180437$					$E = +0.00180437$		

K = +50 N = +16	K = +50 N = +21	K = +50 N = +26
AA = -.08660983 CC = -.00962391	BB = +.02886994 DD = +.00320177	BB = +.03041441 DD = +.00337938
P = +.38974423 A = -.12991474 B = +.04330491 C = -.01443497 D = +.00481165 E = -.00160388	AA = +.09124325 CC = +.01019014	AA = -.04806228 CC = -.00534025
	P = +.20529735 A = +.06843244 B = +.02281061 C = +.00760360 D = +.00253453 E = +.00084484	P = +.21628028 A = -.07299342 B = +.02403114 C = -.00801018 D = +.002567012 E = +.00089004
K = +50 N = +17	K = +50 N = +22	K = +50 N = +27
AA = +.11547975 CC = +.01283108	BB = +.03849325 DD = +.00427702	BB = +.02027628 DD = +.00225292
P = +.25982945 A = +.08660981 B = +.02886993 C = +.00962331 D = +.00320177 E = +.001603925	AA = -.06082883 CC = -.00675076	AA = +.06a08305 CC = +.00712033
	P = +.27372978 A = -.09124325 B = +.03041442 C = -.01019014 D = +.00337938 E = -.00112646	P = +.14418687 A = +.04806229 B = +.01682076 C = +.00534025 D = +.00178008 E = +.00059336
K = +50 N = +18	K = +50 N = +23	K = +50 N = +28
AA = -.07698650 CC = -.00855405	BB = +.02966216 DD = +.00285133	BB = +.02703503 DD = +.00300389
P = +.34643926 A = -.11547975 B = +.05849325 C = -.01283108 D = +.00427702 E = +.00142367	AA = +.08110511 CC = +.00901167	AA = -.04272203 CC = -.00474689
	P = +.18248651 A = +.06082883 B = +.02027627 C = +.00675075 D = +.00225291 E = +.00075097	P = +.19224915 A = -.05608304 B = +.02136101 C = +.00712033 D = +.00237344 E = +.00079114
K = +50 N = +19	K = +50 N = +24	K = +50 N = +29
AA = +.10264868 CC = +.01140540	BB = +.03421622 DD = +.00380180	BB = +.01802335 DD = +.00200259
P = +.23095954 A = +.07698651 B = +.02566217 C = +.00855405 D = +.00285135 E = +.00095045	AA = -.05407007 CC = -.00600778	AA = +.05698289 CC = +.0063291B
	P = +.24331533 A = -.08110510 B = +.02703503 C = +.00901167 D = +.00300389 E = +.00100129	P = +.12816806 A = +.04272202 B = +.01424607 C = +.00474689 D = +.00156229 E = +.00052743
K = +50 N = +20	K = +50 N = +25	K = +50 N = +30
AA = -.06843245 CC = +.00760360	BB = +.02281081 DD = +.00380180	BB = +.02403114 DD = +.00267012
P = +.30794602 A = -.10264867 B = +.03421622 C = +.01140540 D = +.00380180 E = +.00126726	AA = +.07209345 CC = +.00801038	AA = -.03797512 CC = -.00421945
	P = +.16221023 A = +.05407007 B = +.01802335 C = +.00600778 D = +.00200259 E = +.00066753	P = +.17088807 A = +.05698288 B = +.01898756 C = +.00632910 D = +.00210972 E = +.00070324

K = +.60		N = +1		K = +.60		N = +6		K = +.60		N = +11	
P =	+.749999996	P =	+.82397460	P =	+.54314755						
AA =	+.25437498	A =	+.18744999	A =	-.20399363	A =	+.13578684				
B =	+.04687469	BB =	+.05859374	BB =	+.03862581	B =	+.03394670	BB =	+.04243336		
CC =	+.01464843	C =	+.01171874	CC =	-.00963395	C =	-.01287460	CC =	+.01060834	C =	+.00848667
D =	+.000292969	DD =	+.00366210	D =	+.00321863	DD =	+.00241398	D =	+.00212166	DD =	+.00263208
E =	+.000073242			E =	-.00080466			E =	+.00033041		
K = +.60		N = +2		K = +.60		N = +7		K = +.60		N = +12	
P =	+.93749997	P =	+.61798097	P =	+.67893414						
AA =	-.17578123	A =	-.23437499	A =	+.13449524	A =	-.16873334				
B =	+.05859374	BB =	+.04394531	B =	+.05862581	BB =	+.04827976	AA =	-.12730016	B =	+.04243553
CC =	-.01098632	C =	-.01464843	CC =	+.01206994	C =	+.00965393	CC =	-.00795626	C =	-.01090083
D =	+.00036621D	DD =	+.00274658	D =	+.00241598	DD =	+.00301748	D =	+.00265208	DD =	+.00196906
E =	-.000091532			E =	+.00060549			E =	-.00066302		
K = +.60		N = +5		K = +.60		N = +8		K = +.60		N = +13	
P =	+.7051230D	P =	+.77247617	P =	+.30920063						
AA =	+.21972656	A =	+.17378123	A =	-.19311704	A =	+.12730016				
B =	+.04594531	BB =	+.03493164	B =	+.04827976	BB =	+.03620982	AA =	+.15912520	B =	+.03182304
CC =	+.01373291	C =	+.01096632	CC =	-.00905245	C =	-.01206994	CC =	+.00994532	C =	+.00795626
D =	+.000274658	DD =	+.00363122	D =	+.00301748	DD =	+.00228511	D =	+.00198906	DD =	+.00246633
E =	+.000668664			E =	-.00073437			E =	+.00049726		
K = +.60		N = +6		K = +.60		N =		K = +.60		N = +14	
P =	+.87890628	P =	+.57935721	P =	+.63630077						
AA =	-.16479493	A =	-.21972657	A =	+.14483930	A =	-.13912319				
B =	+.05493164	BB =	+.041119875	B =	+.03620982	BB =	+.04326228	AA =	-.11934590	B =	+.03978129
CC =	-.01029966	C =	-.01373291	CC =	+.01131557	C =	+.00905245	CC =	-.00745899	C =	+.00994532
D =	+.00343522	DD =	+.00257492	D =	+.00226311	DD =	+.00282889	D =	+.0024435	DD =	+.00186474
E =	-.0008583D			E =	+.00036377			E =	-.00062150		
K = +.60		N = +5		K = +.60		N = +10		K = +.60		N = +15	
P =	+.65911971	P =	+.72419648	P =	+.47757337						
AA =	+.2D599366	A =	+.14679493	A =	-.18104912	A =	+.11934389				
B =	+.041119875	BB =	+.05149841	B =	+.04326228	BB =	+.05394671	AA =	+.14917986	B =	+.02983597
CC =	+.01287460	C =	+.01029968	CC =	-.00845667	C =	-.01151337	CC =	+.00932374	C =	+.00743899
D =	+.00237492	DD =	+.00321865	D =	+.00282889	DD =	+.00212166	D =	+.00186474	DD =	+.00253093
E =	+.00066373			E =	-.00070722			E =	+.00046618		

$K = +60$	$M = +16$	$K = +60$	$M = +21$	$K = +60$	$M = +26$
AA = -11188490	P = +59871949 A = -14917906 B = +05729496 BB = +02797122 CC = -00699280 D = +00233093 E = -00058273	AA = +12292042 A = +09833654 B = +02458401 BB = +03073010 CC = +00768252 D = +00193650 E = +00038412	P = +39334556 A = +08102664 B = +02700880 BB = +00506416 CC = +00192063 D = +00168805 E = -00042201	AA = -00102664 B = +02700880 BB = +00506416 CC = +00192063 D = +00168805 E = -00042201	P = +43214208 A = -10803552 B = +02700880 BB = +02025666
AA = +13985612	P = +45733961 A = +11188490 B = +02797122 BB = +03496403 CC = +00874100 D = +00174820 E = +00043705	AA = -09219032 A = -12292042 B = +03073010 BB = +02304758 CC = -00576189 D = +00192063 E = -00048015	P = +49168169 A = -12292042 B = +03073010 BB = +02304758 CC = -00576189 D = +00192063 E = -00048015	AA = +10128331 B = +02025666 BB = +02532082 CC = +00699020 D = +00126604 E = -00031651	P = +32410660 A = +08102665 B = +02025666 BB = +02532082 CC = +00506416 D = +00126604 E = -00031651
AA = -10489209	P = +55942468 A = +13985612 B = +03496403 BB = +02622302 CC = -00699275 D = +00218525 E = -00056331	AA = +11523790 A = +09219032 B = +02304758 BB = +02880947 CC = +00120236 D = +00146047 E = +00036011	P = +36876128 A = +09219032 B = +02304758 BB = +02880947 CC = +00120236 D = +00146047 E = +00036011	AA = -07596249 B = +02532082 BB = +01899062 CC = -00633020 D = +00158255 E = -00039563	P = +40513323 A = -10128331 B = +02532082 BB = +01899062 CC = -00633020 D = +00158255 E = -00039563
AA = +13111513	P = +41956842 A = +10489211 B = +02622302 BB = +03277878 CC = +00699275 D = +00183093 E = +00040973	AA = +08642843 A = -11523790 B = +02880947 BB = +02160710 CC = -00560177 D = +00180059 E = -00045014	P = +46095159 A = -11523790 B = +02880947 BB = +02160710 CC = -00560177 D = +00180059 E = -00045014	AA = +09495311 B = +01899062 BB = +00674765 CC = +00599356 D = +00118691 E = +00029672	P = +30304995 A = +07596248 B = +01899062 BB = +02373827 CC = +00674765 D = +00118691 E = +00029672
AA = -09833655	P = +52446050 A = +13111513 B = +03277878 BB = +02458408 CC = -00614602 D = +00204867 E = -00051218	AA = +10603592 A = +08642842 B = +02360710 BB = +02700884 CC = +00675222 D = +00135044 E = +00033761	P = +34571368 A = +08642842 B = +02360710 BB = +02700884 CC = +00540177 D = +00135044 E = +00033761	AA = -07121482 B = +02373827 BB = +00445092 CC = +00168805 D = +00148364 E = -00037091	P = +37981241 A = -09495310 B = +02373827 BB = +01780370 CC = +00445092 D = +00148364 E = -00037091

K = +.70		N = +1		K = +.70		N = +6		K = +.70		N = +11	
		P = +.82552929				P = +.90945523				P = +.70303945	
AA = +.17097492	A = +.15352869	B = +.02564623	BB = +.03017204	AA = -.15216967	A = -.16049174	B = +.02852207	BB = +.02552405	AA = +.14995974	A = +.12406578	B = +.02189396	BB = +.02575759
CC = +.00532447	C = +.00452580	D = +.00079851	DD = +.00093961	CC = -.00411601	C = -.00499001	D = +.00088200	DD = +.00072655	CC = +.00454545	C = +.00586365	D = +.00080181	DD = +.00080215
	E = +.00014094				E = -.00015564				E = +.00012032		
K = +.70		N = +2		K = +.70		N = +7		K = +.70		N = +12	
		P = +.96885797				P = +.74896138				P = +.82710512	
AA = -.14080289	A = +.17097493	B = +.03017204	BB = +.028404756	AA = +.15549578	A = +.15216965	B = +.027392405	BB = +.02744006	AA = -.12020213	A = -.14595972	B = +.02575759	BB = +.02121215
CC = +.00458486	C = +.00532447	D = +.00095961	DD = +.00077579	CC = +.00484256	C = +.000811600	D = +.00072635	DD = +.00085453	CC = +.00174131	C = +.00454545	D = +.00080213	DD = +.00066058
	E = +.00016581				E = +.00012801				E = +.00014155		
K = +.70		N = +5		K = +.70		N = +8		K = +.70		N = +13	
		P = +C79788291				P = +.88115092				P = +.88114542	
AA = +.16565045	A = +.14080287	B = +.02484756	BB = +.02923262	AA = -.12805162	A = -.15549588	B = +.02744006	BB = +.02259769	AA = +.14141426	A = +.12020215	B = +.02121215	BB = +.02495545
CC = +.00519866	C = +.00638686	D = +.000771579	DD = +.00091035	CC = +.00598782	C = +.00484256	D = +.00085453	DD = +.00070573	CC = +.00440590	C = +.00576551	D = +.00066058	DD = +.00077715
	E = +.00016555				E = -.00015080				E = +.00011657		
K = +.70		N = +6		K = +.70		N = +9		K = +.70		N = +14	
		P = +.93868581				P = +.72565725				P = +.80154745	
AA = -.15641801	A = +.16565045	B = +.02925242	BB = +.02407376	AA = +.15965132	A = +.12805365	B = +.02259769	BB = +.02658552	AA = -.11645880	A = -.14141425	B = +.02495545	BB = +.02055155
CC = +.00424811	C = +.00515866	D = +.00091035	DD = +.00074970	CC = +.00469156	C = +.00598782	D = +.00067035	DD = +.00082792	CC = +.00562874	C = +.00440390	D = +.00077715	DD = +.00064001
	E = +.00016065				E = +.00012418				E = +.00015714		
K = +.70		N = +5		K = +.70		N = +10		K = +.70		N = +15	
		P = +.77505550				P = +.85569077				P = +.65995315	
AA = +.16049175	A = +.13641799	B = +.02407576	BB = +.02852207	AA = -.12406579	A = -.15065131	B = +.02658552	BB = +.02189396	AA = +.13701034	A = +.11645879	B = +.02055155	BB = +.02417829
CC = +.00499801	C = +.00424831	D = +.00074970	DD = +.00088200	CC = +.00386564	C = +.00469156	D = +.00062792	DD = +.00068181	CC = +.00426675	C = +.00362674	D = +.00064001	DD = +.00075295
	E = +.00015230				E = -.00014610				E = +.00011294		

$K = +70$ $N = +16$ AA = -.11283204 P = +.77639188 A = -.19701033 A = +.12460449 B = +.02417829 BB = +.01991151 C = +.00426675 CC = +.00388041 D = +.00079295 DD = +.00062008 E = +.00019287	$K = +70$ $N = +21$ AA = +.80017835 A = +.10591362 B = +.01869067 BB = +.02198902 C = +.00329935 D = +.00058206 E = +.00010271	$K = +70$ $N = +26$ AA = -.09632367 P = +.66279860 A = +.11696445 B = +.02064078 BB = +.01699829 C = +.00366249 D = +.000654279 DD = +.00052935 E = +.00011343
$K = +70$ $N = +17$ AA = +.19274355 P = +.63938149 A = +.11283202 B = +.01991153 BB = +.02342533 C = +.00351379 D = +.00062008 DD = +.00072950 E = +.00010942	$K = +70$ $N = +22$ AA = +.10261546 P = +.70609209 A = +.12460448 B = +.02198902 BB = +.01810160 C = +.00388041 D = +.00068477 E = +.00012084	$K = +70$ $N = +27$ AA = +.11332195 P = +.54593409 A = +.09612365 B = +.01699829 BB = +.01999799 C = +.00299969 D = +.00052955 DD = +.00062277 E = +.00009341
$K = +70$ $N = +18$ AA = -.10931822 P = +.75221341 A = +.12274354 B = +.02342532 BB = +.0192914 C = +.00413188 D = +.00072950 DD = +.00060077 E = +.00012873	$K = +70$ $N = +23$ AA = +.12072404 P = +.58148753 A = +.10261546 B = +.01810160 BB = +.02130424 C = +.00375957 D = +.00058345 E = +.00009951	$K = +70$ $N = +28$ AA = +.09332396 P = +.64215768 A = +.11332194 B = +.01999799 BB = +.01646893 C = +.00352905 D = +.00062277 E = +.00010990
$K = +70$ $N = +19$ AA = +.12860965 P = +.61946986 A = +.10931821 B = +.01929144 BB = +.02269581 C = +.00340437 D = +.00060017 DD = +.00070679 E = +.00010601	$K = +70$ $N = +24$ AA = +.09941979 P = +.68410288 A = +.12072403 B = +.02130424 BB = +.01754468 C = +.00309611 D = +.00066345 E = +.00011708	$K = +70$ $N = +29$ AA = +.10979287 P = +.52883572 A = +.09332394 B = +.01646893 BB = +.01937521 C = +.00290628 D = +.00051287 E = +.00009050
$K = +70$ $N = +20$ AA = -.10591363 P = +.72878798 A = +.12860964 B = +.02269581 BB = +.01869067 C = +.00400514 D = +.00070679 DD = +.00058206 E = +.00012472	$K = +70$ $N = +25$ AA = +.11696446 P = +.56337809 A = +.09941979 B = +.01754467 BB = +.02064078 C = +.00364249 D = +.00058347 E = +.00009641	$K = +70$ $N = +30$ AA = +.09041765 P = +.62215958 A = +.10979286 B = +.01937521 BB = +.01595605 C = +.00341915 D = +.00066238 E = +.00010647

$K = +80$	$N = +16$	$P = +90539838$ A = -010059982 B = +011177735 C = -00124197 D = +000013799 E = -000015735	$AA = -00942207$ BB = +00993578 CC = -00110397 DD = +00012266 EE = +00001329	$AA = +09691970$ BB = +00993578 CC = +00119653 DD = +00011965 EE = +00001329	$P = +78504961$ A = +08722773 D = +00969197 C = +00107668 O = +00011965 E = +00001329	$AA = -008403679$ BB = +01050460 CC = -00103749 DD = +00013294	$P = +85087257$ A = -09456139 B = +01050460 C = -00116717 O = +00012968 E = -00001440
$K = +80$	$N = +17$	$P = +80479849$ A = -08942205 B = +00993578 C = -00110397 D = +00012266 E = +00001362	$AA = +09935781$ BB = +01103975 CC = -00122666 DD = +00013629 EE = +00001362	$AA = -08615084$ BB = +01103975 CC = -00106359 DD = +00013629 EE = +00001362	$P = +87227729$ A = -09691969 B = +01076685 C = -00119653 D = +000119294 E = -00001477	$AA = +09397421$ BB = +00957231 CC = +00115276 DD = +00011817	$P = +75633118$ A = +08603679 B = -00959342 C = +00104749 D = +00011527 E = +00001250
$K = +80$	$N = +18$	$P = +89422055$ A = -08935783 B = +01103975 C = -00122664 D = +00013629 E = +00001514	$AA = -08831807$ BB = +00981312 CC = -00109034 DD = +00012114 EE = +00001514	$AA = +09572316$ BB = +00981312 CC = +00118176 DD = +00012114 EE = +00001313	$P = +77535765$ A = +08615084 B = +00957231 C = +00106359 D = +00011817 E = +00001313	$AA = -082909930$ BB = +001063590 CC = +001024668 DD = +00013130 EE = +00001423	$P = +84036801$ A = -09337422 B = +01037491 C = +00115276 D = +00012808 E = +00001423
$K = +80$	$N = +19$	$P = +79468273$ A = +008831808 B = +00981312 C = +00109034 D = +00012114 E = +00001345	$AA = +09813120$ BB = +01090346 CC = +00121149 DD = +00013461 EE = +00001345	$AA = -08506125$ BB = +01090346 CC = -00105046 DD = +00013461 EE = +00001458	$P = +86150845$ A = -09572316 B = +01063590 C = +00118176 D = +00013130 E = +00001458	$AA = +09222346$ BB = +00945414 CC = +00113853 DD = +00011671 EE = +00001265	$P = +74699370$ A = +08299922 B = +00422214 C = +001024668 D = +00011385 E = +00001265
$K = +80$	$N = +20$	$P = +88318078$ A = -09813119 B = +01090346 C = +00121149 D = +00013461 E = -00001495	$AA = -08722773$ BB = +00969197 CC = -00107688 DD = +00011965 EE = +00001495	$AA = +09454139$ BB = +00969197 CC = +00116717 DD = +00011965 EE = +00001298	$P = +7657832$ A = +08506125 B = +00945413 C = +00105046 D = +00011671 E = +00001298	$AA = -08197461$ BB = +01050459 CC = +00101203 DD = +00012968 EE = +00001405	$P = +82999100$ A = -09222144 B = +01024682 C = +00113853 D = +00012650 E = +000011244

$K = +90$	$N = +1$	$K = +90$	$N = +6$	$K = +90$	$N = +11$
AA = +05248377	P = +94736826 A = +04986148 B = +00262428 CC = +00014538 C = +00013612 D = +00000726 E = +00000038	BB = +00276240	AA = -04944825 B = +00274712 CC = -00013697 D = +00000750 E = -00000040	P = +99171228 A = -05219538 B = +00274712 BB = +00260253 CC = +00014398 D = +00000716 E = +00000037	P = +93431866 A = +04917466 B = +00258814 CC = +00013621 D = +00000716 E = +00000037
$K = +90$	$N = +2$	$K = +90$	$N = +7$	$K = +90$	$N = +12$
AA = -04972136	P = +99722970 A = -05248577 B = +00262420 CC = -00013773 C = -00014538 D = +00000745 E = -00000040	BB = +00261701	AA = +05205079 B = +00260253 CC = +00014418 D = +00000720 E = +00000057	P = +93951683 A = +04944825 B = +00260253 BB = +00273951 CC = +00013584 D = +00000754 E = +00000039	P = +98349327 A = +05176280 B = +00272435 CC = +00014398 D = +00000714 E = +00000039
$K = +90$	$N = +3$	$K = +90$	$N = +8$	$K = +90$	$N = +13$
AA = +05234098	P = +94674397 A = +04972356 B = +00261701 CC = +00014698 C = +00013773 D = +00000724 E = +00000038	BB = +00275475	AA = -04931127 B = +00273951 CC = -00013659 D = +00000756 E = -00000019	P = +9856499 A = -05205078 B = +00273951 BB = +00259533 CC = +00014299 D = +00000718 E = +00000037	P = +93173038 A = +04903844 B = +00258097 CC = +00013584 D = +00000714 E = +00000037
$K = +90$	$N = +4$	$K = +90$	$N = +9$	$K = +90$	$N = +14$
AA = -04950562	P = +99460721 A = -05234037 B = +00275475 CC = -00013735 C = -00014498 D = +00000763 E = +00000040	BB = +00260976	AA = +05190659 B = +00259532 CC = +00014378 D = +00000718 E = +00000037	P = +93691411 A = +04931126 B = +00259532 BB = +002739192 CC = +00013546 D = +00000756 E = +00000039	P = +98076872 A = -05161940 B = +00271681 CC = +00013546 D = +00000752 E = +00000039
$K = +90$	$N = +5$	$K = +90$	$N = +10$	$K = +90$	$N = +15$
AA = +05219538	P = +94212672 A = +04950561 B = +00260976 CC = +00014538 C = +00013735 D = +00000722 E = +00000038	BB = +00274712	AA = -04917467 B = +00273192 CC = +00013621 D = +00000756 E = +00000039	P = +98622534 A = -05190659 B = +00273192 BB = +00258814 CC = +00014299 D = +00000716 E = +00000039	P = +92914927 A = +04890259 B = +00257382 CC = +00013546 D = +00000712 E = +00000039

K = +.90 N = +16	K = +.90 N = +21	K = +.90 N = +26
AA = -.04876712 CC = -.00013508	BB = +.00256669 DD = +.00000710 E = -.00000039	BB = +.00268683 DD = +.00000744 E = +.00000037
P = +.97805101 A = -.05147661 B = +.00270926 C = -.00014259 D = +.00000750 E = -.00000039	AA = +.05104979 CC = +.00014141	AA = -.04809537 CC = +.00013322 D = +.00000740 E = -.00000038
P = +.92144878 A = +.04849730 B = +.00255248 C = +.00013434 D = +.00000707 E = +.00000037	BB = +.00256669 CC = +.00014141 D = +.00000744 E = +.00000037	BB = +.00268683 CC = +.00013322 D = +.00000740 E = +.00000038
K = +.90 N = +17	K = +.90 N = +22	K = +.90 N = +27
AA = +.05133381 CC = +.00014219	BB = +.00270177 DD = +.00000748 E = +.00000037	BB = +.00268683 CC = +.00014024 D = +.00000705 E = +.00000039
P = +.92657531 A = +.048476712 B = +.00256669 C = +.00013508 D = +.00000710 E = +.00000039	AA = -.04836295 CC = +.00013396	AA = +.05062670 CC = +.00014024 D = +.00000701 E = +.00000036
P = +.96994598 A = +.05104978 B = +.00268683 C = +.00014141 D = +.00000744 E = +.00000039	BB = +.00256669 CC = +.00014141 D = +.00000744 E = +.00000039	BB = +.00268683 CC = +.00014024 D = +.00000701 E = +.00000036
K = +.90 N = +18	K = +.90 N = +23	K = +.90 N = +28
AA = -.04863202 CC = +.00013471	BB = +.00255958 DD = +.00000709 E = +.00000039	BB = +.00267938 CC = +.00013285 D = +.00000742 E = +.00000037
P = +.97534233 A = +.05133380 B = +.00270177 C = +.00014219 D = +.00000748 E = +.00000039	AA = +.05090837 CC = +.00014102	AA = +.04796214 CC = +.00013285 D = +.00000742 E = +.00000038
P = +.91889620 A = +.048486297 B = +.00255451 C = +.00013295 D = +.00000705 E = +.00000037	BB = +.00267938 CC = +.00014102 D = +.00000742 E = +.00000037	BB = +.00267938 CC = +.00013285 D = +.00000742 E = +.00000038
K = +.90 N = +19	K = +.90 N = +24	K = +.90 N = +29
AA = +.05119160 CC = +.00014180	BB = +.00269429 DD = +.00000746 E = +.00000037	BB = +.00253038 CC = +.00013985 D = +.00000703 E = +.00000039
P = +.92400847 A = +.04863202 B = +.00255958 C = +.00013471 D = +.00000709 E = +.00000037	AA = +.04822898 CC = +.00013359	AA = +.05048645 CC = +.00013985 D = +.00000697 E = +.00000036
P = +.96725907 A = +.05090837 B = +.00267938 C = +.00014102 D = +.00000742 E = +.00000039	BB = +.00253038 CC = +.00014102 D = +.00000742 E = +.00000039	BB = +.00253038 CC = +.00013985 D = +.00000697 E = +.00000036
K = +.90 N = +20	K = +.90 N = +25	K = +.90 N = +30
AA = -.04849730 CC = +.00013434	BB = +.00255246 DD = +.00000707 E = +.00000039	BB = +.00267196 CC = +.00013985 D = +.00000736 E = +.00000038
P = +.97264043 A = +.05119160 B = +.00269429 C = +.00014180 D = +.00000746 E = +.00000039	AA = +.05076734 CC = +.00014062	AA = +.04782927 CC = +.00013985 D = +.00000736 E = +.00000038
P = +.91635053 A = +.04822897 B = +.00253036 C = +.00013359 D = +.00000703 E = +.00000037	BB = +.00267196 CC = +.00014062 D = +.00000740 E = +.00000037	BB = +.00267196 CC = +.00013985 D = +.00000736 E = +.00000038

$K = +1.50$	$N = +1$	$K = +1.50$	$N = +6$	$K = +1.50$	$N = +11$	
AA = -192000000	P = +1420000000 A = -240000000 B = +048000000 CC = -007680000 C = -009600000 D = +001920000 E = -000384000	BB = +038400000	AA = +21233662 B = +03389463 CC = +00849346 D = +001574000 E = +00028311	P = +88473595 A = +17694719 B = +03389463 C = +00707788 D = +00141557 E = +00028311	BB = +04246732 AA = +15655156 B = +03913789 CC = +00628206 D = +00156551 E = -00011810	P = +97844725 A = -19568945 B = +03913789 BB = +03131031 C = -00732757 D = +00156551 E = +00011810
$K = +1.50$	$N = +2$	$K = +1.50$	$N = +7$	$K = +1.50$	$N = +12$	
AA = -230400000	P = +960000000 A = +192000000 B = +038400000 CC = +009216000 C = +007680000 D = +001936000 E = +000307200	BB = +046080000	AA = -16986930 B = +00679477 CC = +00679477 D = +00159869 E = +00033973	P = +16616810 A = +21233662 B = +04246732 CC = +00679477 D = +00135895 E = +00033973	BB = +03397386 AA = +18786168 B = +03131031 CC = +00751467 D = +00125241 E = +00025048	P = +78275785 A = +15655157 B = +03131031 BB = +03737237 C = +00628206 D = +00150289 E = +00025048
$K = +1.50$	$N = +3$	$K = +1.50$	$N = +8$	$K = +1.50$	$N = +13$	
AA = -184320000	P = +1415200000 A = +230400000 B = +048000000 CC = -007372800 C = +009216000 D = +001936000 E = -000368664	BB = +036864000	AA = +20184316 B = +00815372 CC = +00815372 D = +00147456 E = +000271779	P = +86934651 A = +16786930 B = +03397386 CC = +00679477 D = +001936000 E = +000271779	BB = +04078863 AA = +15028949 B = +00601157 CC = +00601157 D = +00183074 E = +00030057	P = +93930931 A = +18786168 B = +03757237 CC = +00751467 D = +00150289 E = +00030057
$K = +1.50$	$N = +4$	$K = +1.50$	$N = +9$	$K = +1.50$	$N = +14$	
AA = +22110398	P = +492159996 A = +10431999 B = +03868398 CC = +00886735 C = +00737279 D = +00147455 E = +00029491	BB = +046423679	AA = +16307455 B = +00653298 CC = +00653298 D = +00163074 E = +00032614	P = +101921590 A = -20384318 B = +04078863 CC = +00615372 D = +00130459 E = +00032614	BB = +03261690 AA = +18036740 B = +030051790 CC = +00721389 D = +00129231 E = +00024046	P = +78144751 A = +15028950 B = +030051790 BB = +03606948 C = +00601158 D = +00129231 E = +00024046
$K = +1.50$	$N = +5$	$K = +1.50$	$N = +10$	$K = +1.50$	$N = +15$	
AA = -17694719	P = +1.10591990 A = -22110398 B = +046423679 CC = -00707786 C = -00884735 D = +00176947 E = -00035389	BB = +03538963	AA = +19568944 B = +00782757 CC = +00782757 D = +00141557 E = +00026091	P = +81537271 A = +16307454 B = +03261490 CC = +00653298 D = +00130459 E = +00026091	BB = +03911788 AA = -14627792 B = +03606947 CC = -00577111 D = +00142277 E = +00028955	P = +90173696 A = -10034739 B = +03606947 BB = +02866558 C = -00721389 D = +00142277 E = +00028955

K = +1.50	M = +16	K = +1.50	M = +21	K = +1.50	M = +26
AA = +.17315530	P = +.72138861	AA = -.12764788	P = +.79779922	AA = +.14116893	P = +.98620158
B = +.14437792	A = -.12764788	B = +.03191196	A = -.15955984	B = +.11764028	
CC = +.00692554	C = +.00577110	CC = -.00510591	C = -.00638259	CC = +.00564673	BB = +.02352805
D = +.00115422	DD = +.00138506	D = +.00127647	DD = +.00102118	D = +.00094112	BB = +.02823366
E = +.00023084		E = +.00025529		E = +.00018822	DD = +.00112934
K = +1.50	M = +17	K = +1.50	M = +22	K = +1.50	M = +27
AA = -.13850681	P = +.85666748	AA = +.15317745	P = +.63823938	AA = +.11295466	P = +.70584160
B = +.17313350	A = -.17313350	B = +.02770156	A = +.12764788	B = +.02823566	A = +.14116832
CC = +.00554027	R = +.03462069	CC = +.00612709	B = +.02552957	CC = +.00451730	C = +.00564673
C = +.00592533	BB = +.00110805	D = +.00122541	C = +.00510591	D = +.00112934	BB = +.02258693
D = +.00138506	DD = +.00027701	E = +.00020423	D = +.0012118	E = +.00022586	DD = +.00090347
K = +1.50	M = +18	K = +1.50	M = +23	K = +1.50	M = +28
AA = +.16820816	P = +.69253401	AA = -.12254198	P = +.76586719	AA = +.15552159	P = +.56467332
B = +.13850580	A = +.13850580	B = +.03324163	A = +.15317744	B = +.11295466	A = +.11295466
CC = +.00664832	C = +.00554027	CC = +.00490167	B = +.03063548	CC = +.00542086	B = +.02258693
C = +.00110805	BB = +.00132966	D = +.00122541	C = +.00612709	D = +.00090347	C = +.00451758
D = +.00022161	DD = +.00106373	E = +.00024508	D = +.00096033	E = +.00018869	BB = +.02710431
K = +1.50	M = +19	K = +1.50	M = +24	K = +1.50	M = +29
AA = +.13796652	P = +.83104075	AA = +.14705034	P = +.61270976	AA = +.10841726	P = +.67760800
B = +.16620815	A = +.16620815	B = +.02659350	A = +.12254195	B = +.15552159	A = +.15552159
CC = +.00531856	C = +.03324163	CC = +.00588201	B = +.02450859	CC = +.00433669	B = +.02710432
C = +.00664832	BB = +.00132966	D = +.00098033	C = +.00490167	D = +.00108417	C = +.00542086
D = +.00132966	DD = +.00106373	E = +.00019606	E = +.000117640	E = +.00021683	BB = +.02168345
E = +.00026593					DD = +.00086735
K = +1.50	M = +20	K = +1.50	M = +25	K = +1.50	M = +50
AA = +.15955981	P = +.66483263	AA = +.11764028	P = +.73525159	AA = +.13010074	P = +.54206644
B = +.13296553	A = +.13296553	B = +.03191196	A = +.16705034	B = +.10841729	A = +.10841729
CC = +.00638239	C = +.02649330	CC = +.00470561	B = +.02941004	CC = +.00520402	B = +.02168345
C = +.00531866	BB = +.00106373	D = +.00127640	C = +.00588201	D = +.00086733	C = +.00433669
D = +.00106373	DD = +.00127647	E = +.00023528	E = +.00094112	E = +.00017346	BB = +.02602014
E = +.00021274					DD = +.00104080

$K = +2.00$	$N = +1$	$K = +2.00$	$N = +6$	$K = +2.00$	$N = +11$
AA =	-.29629629	P = +1.335533330	AA = +.31214751	P = +.70235192	P = +.73990315
		A = -.444444445		A = +.23411064	A = -.24663505
		B = +.14014614	BB = +.09876543	B = +.07803687	B = +.08221160
CC =	-.05292180	C = +.04976542	CC = +.05468905	C = +.02601229	C = +.02740389
		D = +.01666090	DD = +.01097393	D = +.00887076	D = +.00913463
		E = +.00548696		E = +.00289025	E = +.00304483
$K = +2.00$	$N = +2$	$K = +2.00$	$N = +7$	$K = +2.00$	$N = +12$
AA =	+.39506170	P = +.88088884	AA = -.20809035	P = +.93644258	P = +.49327014
		A = +.29629628		A = -.31214732	A = +.1644235
		B = +.09876542	BB = +.13168723	B = +.10406917	B = +.05480779
CC =	+.04959574	C = +.03792180	CC = -.02312205	C = +.03468305	C = +.01826926
		D = +.01097393	DD = +.01463141	D = +.01156101	D = +.00608975
		E = +.00365707		E = +.00585967	E = +.00202991
$K = +2.00$	$N = +3$	$K = +2.00$	$N = +8$	$K = +2.00$	$N = +13$
AA =	-.26337447	P = +1.38318510	AA = +.27746442	P = +.82429497	P = +.63769347
		A = -.39306170		A = +.20809032	A = -.21923113
		B = +.213168723	BB = +.08779149	B = +.05936610	B = +.07307705
CC =	-.02926382	C = +.04959574	CC = +.03082938	C = +.02312203	C = +.02435901
		D = +.01463191	DD = +.00975461	D = +.00770734	D = +.00581311
		E = +.00487730		E = +.00256911	E = +.00270655
$K = +2.00$	$N = +4$	$K = +2.00$	$N = +9$	$K = +2.00$	$N = +14$
AA =	+.55116596	P = +.79012542	AA = -.18497630	P = +.85239532	P = +.43846251
		A = +.26137447		A = -.27746444	A = +.14615410
		B = +.08779149	BB = +.11703532	B = +.09248014	B = +.04871803
CC =	+.03901844	C = +.02926383	CC = +.02055292	C = +.03082938	C = +.01623936
		D = +.00975461	DD = +.01300614	D = +.01027646	D = +.00691311
		E = +.00325159		E = +.00342548	E = +.00180457
$K = +2.00$	$N = +5$	$K = +2.00$	$N = +10$	$K = +2.00$	$N = +15$
AA =	-.23411062	P = +1.05349780	AA = +.24663505	P = +.53492088	P = +.58461635
		A = -.35116593		A = +.1849762	A = -.19487211
		B = +.11703531	BB = +.07803686	B = +.06165876	B = +.06495717
CC =	-.02601229	C = +.03901843	CC = +.02740389	C = +.02035292	C = +.02165243
		D = +.01300614	DD = +.008867076	D = +.00886097	D = +.00721748
		E = +.00433938		E = +.00228365	E = +.00240582

K = +2.00	M = +16	K = +2.00	M = +21	K = +2.00	M = +26
AA = +.17321965	P = +.36976423	AA = -.09124328	P = +.41059473	AA = +.09612460	P = +.21628097
A = +.12991474	B = +.04330491	B = +.05773988	A = -.13686491	B = +.02403115	A = +.07209345
CC = +.01924662	C = +.01443497	CC = -.01019814	B = +.04562163	CC = +.01068051	B = +.02403115
O = +.00461165	O = +.00641554	O = +.00506907	C = +.01320721	O = +.000801038	C = +.00801038
E = +.00160388	E = +.00160388	E = +.0016896	D = +.00337938	E = +.002657012	D = +.00356017
K = +2.00 M = +17					
AA = -.11547978	P = +.51965809	AA = +.12165770	P = +.27372983	AA = -.08408307	P = +.28837385
A = +.17321956	B = +.05773988	B = +.03849329	A = +.09124327	B = +.03204153	A = +.09612461
CC = +.01283103	C = +.01924662	CC = +.013591752	B = +.03041442	C = +.01068051	B = +.03204153
O = +.00641154	O = +.00427702	O = +.00337938	C = +.010135814	CC = +.00712054	O = +.00356017
E = +.00213851	E = +.00213851	E = +.00112646	D = +.00450584	E = +.00115672	D = +.00237344
K = +2.00 M = +18					
AA = +.15397302	P = +.34643932	AA = -.08110514	P = +.36497313	AA = +.08564411	P = +.19224925
A = +.11547977	B = +.03849325	B = +.05132414	A = +.12165771	B = +.02136102	A = +.06408308
CC = +.01710811	C = +.0128310	CC = +.00901168	B = +.04055257	C = +.013511752	B = +.02136102
D = +.00427702	D = +.00427702	D = +.00570270	C = +.00450584	CC = +.00949378	C = +.02136102
E = +.00142567	E = +.00142567	E = +.00150194	D = +.00300389	E = +.00079114	D = +.00316459
K = +2.00 M = +19					
AA = -.10264868	P = +.4619107	AA = +.10814017	P = +.24331540	AA = +.05696276	P = +.25633246
A = +.15397302	B = +.05132434	B = +.038421622	A = +.08110513	B = +.08564415	A = +.08564415
CC = +.01140540	C = +.01710811	CC = +.01201557	B = +.02703504	C = +.02848118	B = +.02848118
O = +.00570270	O = +.00570270	O = +.00380180	C = +.00901168	CC = +.00632919	C = +.00909379
E = +.00190090	E = +.00190090	E = +.00100129	D = +.00300389	E = +.00316459	D = +.00210973
K = +2.00 M = +20					
AA = +.13686490	P = +.30794605	AA = -.07209345	P = +.32442052	AA = +.07595029	P = +.17088016
A = +.03264688	B = +.03421622	B = +.04562163	A = +.10814017	B = +.05696271	A = +.01898757
CC = +.01520721	C = +.01140540	CC = +.00801038	B = +.03804672	C = +.01201557	B = +.02531676
O = +.00901080	O = +.00901080	O = +.00506907	C = +.00400519	CC = +.00843892	C = +.00612919
E = +.000126726	E = +.000126726	E = +.00133306	D = +.00267012	E = +.00210973	D = +.00281297
K = +2.00 M = +25					
AA = +.09612460	P = +.21628097	AA = +.09612460	P = +.21628097	AA = +.09612460	P = +.21628097
A = +.07209345	A = +.07209345	A = +.07209345	A = +.07209345	A = +.07209345	A = +.07209345
CC = +.01068051	C = +.00801038	C = +.00801038	C = +.00801038	C = +.00801038	C = +.00801038
O = +.000801038	O = +.000801038	O = +.000801038	O = +.000801038	O = +.000801038	O = +.000801038
E = +.000089004	E = +.000089004	E = +.000089004	E = +.000089004	E = +.000089004	E = +.000089004
K = +2.00 M = +30					

$K = +2.50$	$N = +1$	$K = +2.50$	$N = +6$	$K = +2.50$	$N = +11$
AA = $-.34985422$	P = $+.142857140$ A = $-.61224487$ B = $+.26239065$ BB = $+.14993752$	AA = $+.33305571$	P = $+.54399101$ A = $+.23313900$ B = $+.09993671$ BB = $+.14273615$	AA = $-.12682553$	P = $+.51787089$ A = $-.22194466$ B = $+.09511913$ BB = $+.05435379$
CC = $-.06425894$	C = $-.11245513$ D = $+.04619419$ E = $-.02065465$	CC = $+.06117349$	C = $+.04282144$ D = $+.01835204$ E = $+.00786516$	CC = $-.02329448$	C = $-.04076534$ D = $+.01747086$ E = $-.00746751$
$K = +2.50$	$N = +2$	$K = +2.50$	$N = +7$	$K = +2.50$	$N = +12$
AA = $+.49979171$	P = $+.81632649$ A = $+.34985420$ B = $+.14993751$ BB = $+.21419644$	AA = $-.19031755$	P = $+.77719000$ A = $-.33305571$ B = $+.14273616$ BB = $+.08156487$	AA = $+.018117931$	P = $+.29552621$ A = $+.12682552$ B = $+.05435379$ BB = $+.07764827$
CC = $+.09179847$	C = $+.06425893$ D = $+.02753954$ E = $+.01180266$	CC = $-.03495628$	C = $-.06117349$ D = $+.02621721$ E = $-.01123594$	CC = $+.05327782$	C = $+.02329446$ D = $+.00998334$ E = $+.00427857$
$K = +2.50$	$N = +3$	$K = +2.50$	$N = +8$	$K = +2.50$	$N = +13$
AA = $-.283559528$	P = $+.116618070$ A = $-.49979172$ B = $+.21419644$ BB = $+.12239797$	AA = $+.27100219$	P = $+.64407427$ A = $+.19031754$ B = $+.08156465$ BB = $+.11652093$	AA = $-.010353104$	P = $+.42275174$ A = $-.018117931$ B = $+.07764827$ BB = $+.04437044$
CC = $-.05245627$	C = $-.09179847$ D = $+.03934220$ E = $-.01680094$	CC = $+.06099375A$	C = $+.03495628$ D = $+.01498126$ E = $+.00642056$	CC = $-.01601590$	C = $-.03277703$ D = $+.01426192$ E = $-.00611225$
$K = +2.50$	$N = +4$	$K = +2.50$	$N = +9$	$K = +2.50$	$N = +14$
AA = $+.40799322$	P = $+.66638895$ A = $+.28559526$ B = $+.12239796$ BB = $+.17485423$	AA = $-.15536128$	P = $+.636349189$ A = $-.2710223$ B = $+.11652095$ BB = $+.06658340$	AA = $-.14790148$	P = $+.24357242$ A = $+.10353104$ B = $+.04617044$ BB = $+.06338034$
CC = $+.07493752$	C = $+.05245627$ D = $+.02248125$ E = $+.00963462$	CC = $-.028653574$	C = $-.04093755$ D = $+.02140180$ E = $-.00917220$	CC = $+.02716557$	C = $+.03901590$ D = $+.00834967$ E = $+.00349271$
$K = +2.50$	$N = +5$	$K = +2.50$	$N = +10$	$K = +2.50$	$N = +15$
AA = $-.23333099$	P = $+.95198422$ A = $-.90799323$ B = $+.17485424$ BB = $+.09991672$	AA = $+.22194467$	P = $+.36250964$ A = $+.15536127$ B = $+.06658340$ BB = $+.09511914$	AA = $-.08653513$	P = $+.34510343$ A = $-.14790147$ B = $+.06338034$ BB = $+.03622076$
CC = $-.04282144$	C = $-.07493752$ D = $+.03211608$ E = $-.01376403$	CC = $+.04076534$	C = $+.028653574$ D = $+.01222980$ E = $+.00524125$	CC = $-.01552518$	C = $-.02716557$ D = $+.01684238$ E = $-.00498959$

$K = +2.50$ $N = +16$ $AA = +0.12075599$ $CC = +0.02217597$ $BB = +0.05174395$ $CC = +0.00844447$ $DD = +0.00950399$ $EE = +0.00205119$ $P = +0.19720197$ $A = +0.08451512$ $B = +0.03622076$ $C = +0.01552518$ $D = +0.00665279$ $E = +0.00205119$	$K = +2.50$ $N = +21$ $AA = -0.04597545$ $BB = +0.05174395$ $CC = +0.00844447$ $DD = +0.00950399$ $EE = +0.00271429$ $P = +0.18773310$ $A = -0.08045704$ $B = +0.05448158$ $C = -0.01477782$ $D = +0.00631335$ $E = -0.00271429$	$K = +2.50$ $N = +25$ $AA = +0.04376788$ $BB = +0.01970376$ $CC = +0.00803899$ $DD = +0.00361905$ $EE = +0.0010335$ $P = +0.07148754$ $A = +0.03063751$ $B = +0.01715036$ $C = +0.00562729$ $D = +0.00241169$ $E = +0.0010335$
$K = +2.50$ $N = +17$ $AA = -0.05899195$ $CC = -0.01267199$ $BB = +0.02956797$ $CC = +0.01206353$ $DD = +0.00954305$ $EE = -0.00467313$ $P = +0.28171714$ $A = +0.12073591$ $B = +0.05174596$ $C = +0.02217598$ $D = +0.00950399$ $E = -0.00467313$	$K = +2.50$ $N = +22$ $AA = +0.05567926$ $CC = +0.01206353$ $BB = +0.02814825$ $CC = +0.00844447$ $DD = +0.00517008$ $EE = +0.00155102$ $P = +0.10727614$ $A = +0.04597546$ $B = +0.01970571$ $C = +0.00844447$ $D = +0.00361906$ $E = +0.00155102$	$K = +2.50$ $N = +27$ $AA = +0.02501026$ $CC = +0.00459371$ $BB = +0.02814825$ $CC = +0.00517008$ $DD = +0.000517008$ $EE = +0.00147655$ $P = +0.10212517$ $A = +0.04576792$ $B = +0.01875768$ $C = +0.00803900$ $D = +0.00244528$ $E = +0.00147655$
$K = +2.50$ $N = +18$ $AA = +0.09855794$ $CC = +0.01610284$ $BB = +0.04223997$ $CC = +0.00689345$ $DD = +0.00775636$ $EE = +0.00252750$ $P = +0.16098124$ $A = +0.0899195$ $B = +0.02956798$ $C = +0.01267199$ $D = +0.00561085$ $E = +0.00252750$	$K = +2.50$ $N = +23$ $AA = -0.01753101$ $CC = +0.00689345$ $BB = +0.02814825$ $CC = +0.01206353$ $DD = +0.00817008$ $EE = +0.00221575$ $P = +0.15525164$ $A = -0.05567927$ $B = +0.02814825$ $C = +0.01206353$ $D = +0.00817008$ $E = +0.00221575$	$K = +2.50$ $N = +28$ $AA = +0.03472891$ $CC = +0.00656245$ $BB = +0.01608472$ $CC = +0.00295433$ $DD = +0.00221248$ $EE = +0.00084374$ $P = +0.05895725$ $A = +0.02501024$ $B = +0.01071867$ $C = +0.0059171$ $D = +0.00196873$ $E = +0.00084374$
$K = +2.50$ $N = +19$ $AA = -0.05631995$ $CC = +0.01034468$ $BB = +0.02413712$ $CC = +0.00984778$ $DD = +0.00460334$ $EE = +0.00332501$ $P = +0.22997516$ $A = +0.09855992$ $B = +0.04223996$ $C = +0.01810284$ $D = +0.00775636$ $E = +0.00332501$	$K = +2.50$ $N = +24$ $AA = +0.05361571$ $CC = +0.00984778$ $BB = +0.01608471$ $CC = +0.00689344$ $DD = +0.00295433$ $EE = +0.00126614$ $P = +0.08757234$ $A = +0.03753100$ $B = +0.01608471$ $C = +0.00689344$ $D = +0.00295433$ $E = +0.00126614$	$K = +2.50$ $N = +29$ $AA = -0.02041652$ $CC = +0.00374997$ $BB = +0.02297816$ $CC = +0.00422067$ $DD = +0.00281248$ $EE = +0.00120534$ $P = +0.03336748$ $A = +0.03572892$ $B = +0.01551259$ $C = +0.00456245$ $D = +0.00281248$ $E = +0.00120534$
$K = +2.50$ $N = +20$ $AA = +0.08045705$ $CC = +0.01477782$ $BB = +0.03460159$ $CC = +0.00562730$ $DD = +0.00633335$ $EE = +0.00190000$ $P = +0.13141320$ $A = +0.05631994$ $B = +0.02413711$ $C = +0.01034467$ $D = +0.00443334$ $E = +0.00190000$	$K = +2.50$ $N = +25$ $AA = +0.09061752$ $CC = +0.00562730$ $BB = +0.02297814$ $CC = +0.00984777$ $DD = +0.00422047$ $EE = +0.00180677$ $P = +0.12510324$ $A = -0.05361567$ $B = +0.02297814$ $C = +0.00984777$ $D = +0.00422047$ $E = +0.00180677$	$K = +2.50$ $N = +30$ $AA = +0.02916645$ $CC = +0.00535710$ $BB = +0.01317036$ $CC = +0.00241170$ $DD = +0.00160713$ $EE = +0.00088877$ $P = +0.04763854$ $A = +0.02041652$ $B = +0.00874993$ $C = +0.00574997$ $D = +0.00160713$ $E = +0.00088877$

$K = +3.00$	$N = +1$	$K = +3.00$	$N = +6$	$K = +3.00$	$N = +11$
		$P = +1.69999990$ AA = -.37499997 CC = -.09875000	$P = +.42107488$ AA = +.31640616 CC = +.07910154	$P = +.35595605$ AA = -.08898922 CC = -.02224730	$P = +.17797643$ AA = +.08898921 CC = +.02224730
		$A = -.74999995$ B = +.17499998 C = -.18749999 D = +.09374999 E = -.04687499	$A = +.21093744$ B = +.10546872 C = +.05273436 D = +.02696718 E = +.01310359	$B = +.08898922$ C = +.04449460 D = +.02224730 E = +.01112365	$B = +.04449460$ C = +.02224730 D = +.01112365
$K = +3.00$	$N = +2$	$K = +3.00$	$N = +7$	$K = +3.00$	$N = +12$
		$P = +.74999990$ AA = +.56249993 CC = +.14062498	$P = +.63281227$ AA = -.15820307 CC = -.03955076	$P = +.17797642$ AA = +.13348381 CC = +.03337095	$P = +.08898921$ AA = +.04449460 CC = +.02224730
		$A = +.37499995$ B = +.18749998 C = +.09374998 D = +.04687499 E = +.02363749	$A = -.31640616$ B = +.15820307 C = +.07910154 D = +.03955076 E = +.01977538	$B = +.04449460$ C = +.02224730 D = +.01112365 E = +.00556182	$B = +.06674190$ C = +.01112365 D = +.01668547
$K = +3.00$	$N = +3$	$K = +3.00$	$N = +8$	$K = +3.00$	$N = +13$
		$P = +1.12499980$ AA = -.28124995 CC = -.07031250	$P = +.31640616$ AA = +.29730462 CC = +.05932615	$P = +.28696760$ AA = +.06674190 CC = +.01668547	$P = +.13348380$ AA = +.06674190 CC = +.01668547
		$A = -.56249990$ B = +.28124995 C = +.14062498 D = +.07031248 E = +.03515624	$A = +.15820308$ B = +.07910154 C = +.03955077 D = +.01977538 E = +.00988769	$B = +.06674190$ C = +.03337095 D = +.01668547 E = +.00834273	$B = +.03337095$ C = +.01668547 D = +.00834273
$K = +3.00$	$N = +4$	$K = +3.00$	$N = +9$	$K = +3.00$	$N = +14$
		$P = +.56249992$ AA = +.42107494 CC = +.10546873	$P = +.47460916$ AA = +.11865229 CC = +.02966307	$P = +.13348381$ AA = +.10011285 CC = +.02502821	$P = +.06674190$ AA = +.03337095 CC = +.01668547
		$A = +.28124996$ B = +.14062498 C = +.07031249 D = +.03515624 E = +.01757812	$B = +.11865229$ C = +.05912614 D = +.02966307 E = +.01483153	$B = +.06674190$ C = +.03337095 D = +.01668547 E = +.00834273	$B = +.03337095$ C = +.01668547 D = +.00834273
$K = +3.00$	$N = +5$	$K = +3.00$	$N = +10$	$K = +3.00$	$N = +15$
		$P = +.84374975$ AA = -.21093744 CC = -.05273437	$P = +.23730460$ AA = +.17797845 CC = +.04649461	$P = +.20022563$ AA = +.05005642 CC = +.01251410	$P = +.10011282$ AA = +.05005640 CC = +.02502820
		$A = -.21093748$ B = +.21093744 C = +.10546872 D = +.05273435 E = +.02636718	$B = +.11865230$ C = +.05932615 D = +.02966307 E = +.00741578	$B = +.05005640$ C = +.02502820 D = +.01251410 E = +.00625705	$B = +.02502820$ C = +.01251410 D = +.00625705

<p>K = +3.00 N = +18</p> <p>AA = +.07508462 BB = +.03754231 CC = +.01877115</p> <p>P = +.10011283 A = +.05005641 B = +.02502820</p> <p>C = +.01251410 D = +.00625705 E = +.00312052</p>	<p>K = +3.00 N = +21</p> <p>AA = -.02111753 BB = +.00527938 CC = +.00938557</p> <p>P = +.00447015 A = -.04223507 B = +.02111753</p> <p>C = -.01055976 D = +.00527938 E = +.00263969</p>	<p>K = +3.00 N = +26</p> <p>AA = +.01781792 BB = +.001055876 CC = +.006445448</p> <p>P = +.02375723 A = +.01107061 B = +.00593930</p> <p>C = +.002946985 D = +.00265969 E = +.00074241</p>
<p>K = +3.00 N = +17</p> <p>AA = -.03754231 BB = +.01077115 CC = +.00938558</p> <p>P = +.15016927 A = +.07508463 B = +.03754231</p> <p>C = +.01877115 D = +.00938558 E = +.00469278</p>	<p>K = +3.00 N = +22</p> <p>AA = +.01167631 BB = +.00791907 CC = +.00191984</p> <p>P = +.04223508 A = +.02111754 B = +.01055877</p> <p>C = +.00527938 D = +.00263969 E = +.00091984</p>	<p>K = +3.00 N = +27</p> <p>AA = +.00890896 BB = +.01583815 CC = +.00222724</p> <p>P = +.03563985 A = -.01781792 B = +.00890896</p> <p>C = +.00445448 D = +.00222724 E = +.00111362</p>
<p>K = +3.00 N = +18</p> <p>AA = +.05631368 BB = +.02815674 CC = +.01407837</p> <p>P = +.07508464 A = +.03754232 B = +.01877116</p> <p>C = +.00938558 D = +.00469279 E = +.00234639</p>	<p>K = +3.00 N = +23</p> <p>AA = +.01583815 BB = +.00395953 CC = +.00791907</p> <p>P = +.06335261 A = +.03167630 B = +.01583815</p> <p>C = +.00791907 D = +.00395953 E = +.00197976</p>	<p>K = +3.00 N = +28</p> <p>AA = +.01336344 BB = +.00336086 CC = +.00336086</p> <p>P = +.01781793 A = +.00890896 B = +.00445448</p> <p>C = +.00222724 D = +.00111362 E = +.000955601</p>
<p>K = +3.00 N = +19</p> <p>AA = -.02815674 BB = +.01407837 CC = +.00703918</p> <p>P = +.11262698 A = +.05631369 B = +.02815674</p> <p>C = +.01407837 D = +.00703918 E = +.00351959</p>	<p>K = +3.00 N = +24</p> <p>AA = +.02375723 BB = +.00593930 CC = +.00197976</p> <p>P = +.03167631 A = +.01583815 B = +.00791907</p> <p>C = +.00395953 D = +.002096965 E = +.00098988</p>	<p>K = +3.00 N = +29</p> <p>AA = +.00668172 BB = +.01167631 CC = +.00167043</p> <p>P = +.02672609 A = +.01336344 B = +.00668172</p> <p>C = +.00336086 D = +.00167043 E = +.00083521</p>
<p>K = +3.00 N = +20</p> <p>AA = +.04223508 BB = +.02111754 CC = +.01055877</p> <p>P = +.05631344 A = +.02815672 B = +.01407836</p> <p>C = +.00703918 D = +.00351959 E = +.00175979</p>	<p>K = +3.00 N = +25</p> <p>AA = +.01187861 BB = +.00296965 CC = +.00938557</p> <p>P = +.04751446 A = +.02375723 B = +.01187861</p> <p>C = +.00593930 D = +.00296965 E = +.00140462</p>	<p>K = +3.00 N = +30</p> <p>AA = +.0102258 BB = +.00593930 CC = +.00250564</p> <p>P = +.01336344 A = +.00668172 B = +.00336086</p> <p>C = +.00167043 D = +.00083521 E = +.00098988</p>

K = +3.50		N = +1		K = +3.50		N = +6		K = +3.50		N = +11	
P =	+1.05555550	P =	+1.05555550	P =	+1.03046238	P =	+0.96066199	P =	+0.24569729	P =	+0.24569729
AA =	-0.38408778	A =	-0.66419749	A =	-0.10358465	A =	-0.06066199	A =	-0.13649847	A =	-0.13649847
BB =	+0.48010971	BB =	+0.21338209	BB =	+0.10199147	BB =	+0.15865339	BB =	+0.07585248	BB =	+0.03370332
CC =	-0.11854561	C =	-0.26672762	CC =	+0.08814077	C =	+0.05666192	CC =	-0.01872407	C =	-0.04212919
DD =	+0.14618201	DD =	+0.06985868	DD =	+0.03147884	DD =	+0.04896709	DD =	+0.02340508	DD =	+0.01040226
EE =	-0.08232333			EE =	+0.01748824			EE =	-0.01900282		
K = +3.50		N = +2		K = +3.50		N = +7		K = +3.50		N = +12	
P =	+0.69155792	P =	+0.69155792	P =	+0.51403699	P =	+0.09456991	P =	+0.10919878	P =	+0.10919878
AA =	+0.59746980	A =	+0.59408775	AA =	-0.12692271	A =	-0.28597610	AA =	+0.09456991	A =	+0.06066598
BB =	+0.21539207	BB =	+0.33192766	BB =	+0.03917367	BB =	+0.15965539	BB =	+0.05370332	BB =	+0.05242239
CC =	+0.18440423	C =	+0.11854559	CC =	-0.08814077	C =	-0.08814077	CC =	+0.02912633	C =	+0.01872407
DD =	+0.06585866	DD =	+0.10244680	DD =	+0.04896709	DD =	+0.02176319	DD =	+0.01040226	DD =	+0.01618129
EE =	+0.05653804			EE =	-0.02720394			EE =	+0.00577903		
K = +3.50		N = +3		K = +3.50		N = +8		K = +3.50		N = +13	
P =	+0.07544560	P =	+0.07544560	P =	+0.22046088	P =	+0.04194191	P =	+0.16986476	P =	+0.16986476
AA =	-0.26454212	A =	-0.59746977	AA =	+0.19743532	A =	+0.12692271	AA =	-0.09456991	A =	-0.09456991
BB =	+0.35192765	BB =	+0.14792340	BB =	+0.06093682	BB =	+0.07051261	BB =	+0.05242239	BB =	+0.02330106
CC =	-0.08195745	C =	-0.18440423	CC =	-0.03917367	C =	-0.03917367	CC =	-0.01294503	C =	-0.02912633
DD =	+0.02446800	DD =	+0.04053191	DD =	+0.02176315	DD =	+0.03585379	DD =	+0.01618129	DD =	+0.00719168
EE =	-0.03691489			EE =	+0.01209064			EE =	-0.00598960		
K = +3.50		N = +4		K = +3.50		N = +9		K = +3.50		N = +14	
P =	+0.47797584	P =	+0.47797584	P =	+0.35538398	P =	+0.04934299	P =	+0.07549546	P =	+0.07549546
AA =	+0.41306555	A =	+0.26556213	AA =	-0.08774903	A =	-0.19743532	AA =	+0.04934299	A =	+0.04934299
BB =	+0.14752340	BB =	+0.22948084	BB =	+0.10968629	BB =	+0.04874947	BB =	+0.02330106	BB =	+0.03624610
CC =	+0.12748936	C =	+0.08195744	CC =	-0.02708309	C =	-0.06093682	CC =	+0.02015672	C =	+0.01294503
DD =	+0.04553191	DD =	+0.07082742	DD =	+0.05983979	DD =	+0.01504613	DD =	+0.00719168	DD =	+0.01118706
EE =	+0.02925550			EE =	-0.01880766			EE =	+0.00399538		
K = +3.50		N = +5		K = +3.50		N = +10		K = +3.50		N = +15	
P =	+0.74391784	P =	+0.74391784	P =	+0.15794825	P =	+0.0289968	P =	+0.11743738	P =	+0.11743738
AA =	-0.18358665	A =	-0.41306546	AA =	+0.13649848	A =	+0.08774902	AA =	-0.06524298	A =	-0.06524298
BB =	+0.22948081	BB =	+0.10199147	BB =	+0.04874945	BB =	+0.07583249	BB =	+0.03624610	BB =	+0.03624610
CC =	-0.03666195	C =	-0.12748954	CC =	+0.04212916	C =	+0.02708303	CC =	+0.00894865	C =	-0.02015672
DD =	+0.07082741	DD =	+0.03147085	DD =	+0.01504612	DD =	+0.02940508	DD =	+0.01118706	DD =	+0.00497203
EE =	+0.05934856			EE =	+0.00835896			EE =	-0.00621503		

$K = +3.50$	$N = +16$	$K = +3.50$	$N = +21$	$K = +3.50$	$N = +25$					
		$P = +05219435$ AA = +04510522 CC = +01392167	$A = +02899606$ B = +01610956 C = +00894966 D = +00497202 E = +00276223	$BB = +02505901$ OO = +00773426	$AA = -009958208$ CC = -00275745 OO = +00369679 EE = -00205377	$P = +03880745$ A = -02155969 B = +01197760 C = -00665422 D = +00369679 E = -00205377	$BB = +00532198$ OO = +00164301	$AA = +00712445$ CC = +00219890 OO = +00078532 EE = +00003629	$P = +00824401$ A = +00458000 B = +00254444 C = +00141358 D = +00078532 E = +00003629	$BB = +00395803$ OO = +00122161
$K = +3.50$	$N = +17$	$P = +081119125$ AA = -02004723 CC = +00518743	$A = -04510624$ B = +02505902 C = +01592167 D = +00773426 E = +00429681	$BB = +01113734$ OO = +00343745	$AA = +01490547$ CC = +00460045 OO = +00164301 EE = +00091278	$P = +01724776$ A = +009958208 B = +00532338 C = +00295743 D = +00255580 E = +00091278	$BB = +00828081$ OO = +00097729	$AA = +00316642$ CC = +00097729 OO = +00122161 EE = +00067067	$P = +01282402$ A = -00712445 B = +00395803 C = +00219890 D = +00067067	$BB = +00175912$ OO = +00054293
$K = +3.50$	$N = +18$	$P = +09608500$ AA = +03118456 CC = +009628486	$A = +02004722$ B = +01113734 C = +00610741 D = +00143745 E = +0019096	$BB = +01732475$ OO = +00536714	$AA = -00662465$ CC = -00206464 OO = +00255580 EE = -00141984	$P = +02682985$ A = -01490547 B = +00828081 C = +00460045 D = +00255580 E = -00141984	$BB = +00368036$ OO = +00113591	$AA = +00492555$ CC = +00152023 OO = +00054293 EE = +000030163	$P = +00569956$ A = +00316642 B = +00175912 C = +00097729 D = +00066457	$BB = +00273641$ OO = +00066457
$K = +3.50$	$N = +19$	$P = +05615223$ AA = -01385981 CC = +00427771	$A = -03118457$ B = +01752476 C = +00962486 D = +00534714 E = +00297063	$BB = +00769989$ OO = +00237651	$AA = +01030501$ CC = +00318065 OO = +00113591 EE = +00063106	$P = +01192437$ A = +00662465 B = +00568036 C = +00206464 D = +00113591 E = +00063106	$BB = +00572500$ OO = +00176697	$AA = -00218913$ CC = +00067565 OO = +00084457 EE = +00046920	$P = +00886598$ A = +004642554 B = +00273641 C = +00152023 D = +00084457	$BB = +00121618$ OO = +00037536
$K = +3.50$	$N = +20$	$P = +02494764$ AA = +02155969 CC = +00665422	$A = +01781980$ B = +00769988 C = +00427771 D = +00237650 E = +00132028	$BB = +01197760$ OO = +00369679	$AA = -00460000$ CC = -00141358 OO = +00176697 EE = +00098165	$P = +01856902$ A = +01030501 B = +00572500 C = +00318055 D = +00176697 E = +00098165	$BB = +00254446$ OO = +00078532	$AA = +00340531$ CC = +00105102 OO = +00020853	$P = +00394043$ A = +00218913 B = +00121618 C = +00067565 D = +00037536	$BB = +00169184$ OO = +00058390
$K = +3.50$	$N = +21$									

<p>K = +6.00 N = +1</p> <table border="0"> <tbody> <tr> <td>AA = -0.38399998</td> <td>BB = +0.23039998</td> <td>CC = -0.13823999</td> <td>DD = +0.08294400</td> <td>E = -0.12445599</td> <td>P = +1.50000000</td> <td>A = -0.95999994</td> <td>B = +0.57599996</td> <td>RA = +0.25165819</td> <td>C = -0.38549996</td> <td>D = +0.20735999</td> <td>E = +0.02058431</td> <td>R = +28214395</td> <td>A = +0.15728691</td> <td>B = +0.09437182</td> <td>BB = +0.15099491</td> <td>C = +0.05662309</td> <td>D = +0.03597365</td> <td>E = +0.05435817</td> <td>AA = -0.04123167</td> <td>BB = +0.02473900</td> <td>CC = -0.01486340</td> <td>DD = +0.02226510</td> <td>E = +0.01335906</td> <td>P = +0.17179866</td> <td>A = -0.10507910</td> <td>B = +0.06184751</td> <td>RA = +0.04123167</td> <td>C = +0.03710850</td> <td>D = +0.02226510</td> <td>E = +0.00890604</td> </tr> </tbody> </table>	AA = -0.38399998	BB = +0.23039998	CC = -0.13823999	DD = +0.08294400	E = -0.12445599	P = +1.50000000	A = -0.95999994	B = +0.57599996	RA = +0.25165819	C = -0.38549996	D = +0.20735999	E = +0.02058431	R = +28214395	A = +0.15728691	B = +0.09437182	BB = +0.15099491	C = +0.05662309	D = +0.03597365	E = +0.05435817	AA = -0.04123167	BB = +0.02473900	CC = -0.01486340	DD = +0.02226510	E = +0.01335906	P = +0.17179866	A = -0.10507910	B = +0.06184751	RA = +0.04123167	C = +0.03710850	D = +0.02226510	E = +0.00890604	<p>K = +6.00 N = +6</p> <table border="0"> <tbody> <tr> <td>AA = -0.38399998</td> <td>BB = +0.23039998</td> <td>CC = -0.13823999</td> <td>DD = +0.08294400</td> <td>E = -0.12445599</td> <td>P = +0.25165819</td> <td>A = +0.15728691</td> <td>B = +0.09437182</td> <td>RA = +0.25165819</td> <td>C = +0.05662309</td> <td>D = +0.03597365</td> <td>E = +0.02058431</td> <td>R = +28214395</td> <td>A = +0.15728691</td> <td>B = +0.09437182</td> <td>BB = +0.15099491</td> <td>C = +0.05662309</td> <td>D = +0.03597365</td> <td>E = +0.02058431</td> <td>AA = -0.04123167</td> <td>BB = +0.02473900</td> <td>CC = -0.01486340</td> <td>DD = +0.02226510</td> <td>E = +0.01335906</td> <td>P = +0.17179866</td> <td>A = -0.10507910</td> <td>B = +0.06184751</td> <td>RA = +0.04123167</td> <td>C = +0.03710850</td> <td>D = +0.02226510</td> <td>E = +0.00890604</td> </tr> </tbody> </table>	AA = -0.38399998	BB = +0.23039998	CC = -0.13823999	DD = +0.08294400	E = -0.12445599	P = +0.25165819	A = +0.15728691	B = +0.09437182	RA = +0.25165819	C = +0.05662309	D = +0.03597365	E = +0.02058431	R = +28214395	A = +0.15728691	B = +0.09437182	BB = +0.15099491	C = +0.05662309	D = +0.03597365	E = +0.02058431	AA = -0.04123167	BB = +0.02473900	CC = -0.01486340	DD = +0.02226510	E = +0.01335906	P = +0.17179866	A = -0.10507910	B = +0.06184751	RA = +0.04123167	C = +0.03710850	D = +0.02226510	E = +0.00890604	<p>K = +6.00 N = +11</p> <table border="0"> <tbody> <tr> <td>AA = -0.38399998</td> <td>BB = +0.23039998</td> <td>CC = -0.13823999</td> <td>DD = +0.08294400</td> <td>E = -0.12445599</td> <td>P = +0.25165819</td> <td>A = +0.15728691</td> <td>B = +0.09437182</td> <td>RA = +0.25165819</td> <td>C = +0.05662309</td> <td>D = +0.03597365</td> <td>E = +0.02058431</td> <td>R = +28214395</td> <td>A = +0.15728691</td> <td>B = +0.09437182</td> <td>BB = +0.15099491</td> <td>C = +0.05662309</td> <td>D = +0.03597365</td> <td>E = +0.02058431</td> <td>AA = -0.04123167</td> <td>BB = +0.02473900</td> <td>CC = -0.01486340</td> <td>DD = +0.02226510</td> <td>E = +0.01335906</td> <td>P = +0.17179866</td> <td>A = -0.10507910</td> <td>B = +0.06184751</td> <td>RA = +0.04123167</td> <td>C = +0.03710850</td> <td>D = +0.02226510</td> <td>E = +0.00890604</td> </tr> </tbody> </table>	AA = -0.38399998	BB = +0.23039998	CC = -0.13823999	DD = +0.08294400	E = -0.12445599	P = +0.25165819	A = +0.15728691	B = +0.09437182	RA = +0.25165819	C = +0.05662309	D = +0.03597365	E = +0.02058431	R = +28214395	A = +0.15728691	B = +0.09437182	BB = +0.15099491	C = +0.05662309	D = +0.03597365	E = +0.02058431	AA = -0.04123167	BB = +0.02473900	CC = -0.01486340	DD = +0.02226510	E = +0.01335906	P = +0.17179866	A = -0.10507910	B = +0.06184751	RA = +0.04123167	C = +0.03710850	D = +0.02226510	E = +0.00890604
AA = -0.38399998	BB = +0.23039998	CC = -0.13823999	DD = +0.08294400	E = -0.12445599	P = +1.50000000	A = -0.95999994	B = +0.57599996	RA = +0.25165819	C = -0.38549996	D = +0.20735999	E = +0.02058431	R = +28214395	A = +0.15728691	B = +0.09437182	BB = +0.15099491	C = +0.05662309	D = +0.03597365	E = +0.05435817	AA = -0.04123167	BB = +0.02473900	CC = -0.01486340	DD = +0.02226510	E = +0.01335906	P = +0.17179866	A = -0.10507910	B = +0.06184751	RA = +0.04123167	C = +0.03710850	D = +0.02226510	E = +0.00890604																																																																	
AA = -0.38399998	BB = +0.23039998	CC = -0.13823999	DD = +0.08294400	E = -0.12445599	P = +0.25165819	A = +0.15728691	B = +0.09437182	RA = +0.25165819	C = +0.05662309	D = +0.03597365	E = +0.02058431	R = +28214395	A = +0.15728691	B = +0.09437182	BB = +0.15099491	C = +0.05662309	D = +0.03597365	E = +0.02058431	AA = -0.04123167	BB = +0.02473900	CC = -0.01486340	DD = +0.02226510	E = +0.01335906	P = +0.17179866	A = -0.10507910	B = +0.06184751	RA = +0.04123167	C = +0.03710850	D = +0.02226510	E = +0.00890604																																																																	
AA = -0.38399998	BB = +0.23039998	CC = -0.13823999	DD = +0.08294400	E = -0.12445599	P = +0.25165819	A = +0.15728691	B = +0.09437182	RA = +0.25165819	C = +0.05662309	D = +0.03597365	E = +0.02058431	R = +28214395	A = +0.15728691	B = +0.09437182	BB = +0.15099491	C = +0.05662309	D = +0.03597365	E = +0.02058431	AA = -0.04123167	BB = +0.02473900	CC = -0.01486340	DD = +0.02226510	E = +0.01335906	P = +0.17179866	A = -0.10507910	B = +0.06184751	RA = +0.04123167	C = +0.03710850	D = +0.02226510	E = +0.00890604																																																																	
<p>K = +6.00 N = +2</p> <table border="0"> <tbody> <tr> <td>AA = +0.61439992</td> <td>BB = +0.23039997</td> <td>CC = +0.22110396</td> <td>DD = +0.08294398</td> <td>E = +0.09766393</td> <td>P = +0.63999991</td> <td>A = +0.38399995</td> <td>B = +0.23039997</td> <td>RA = +0.10066127</td> <td>C = +0.18239998</td> <td>D = +0.08294398</td> <td>E = +0.09766393</td> <td>R = +41943029</td> <td>A = -0.25163817</td> <td>B = +0.15099490</td> <td>BB = +0.06039796</td> <td>C = -0.09059694</td> <td>D = +0.05435816</td> <td>E = +0.02614089</td> <td>AA = +0.06597065</td> <td>BB = +0.02473699</td> <td>CC = +0.02376943</td> <td>DD = +0.01424966</td> <td>E = +0.0053A362</td> <td>P = +0.6871943</td> <td>A = +0.04123166</td> <td>B = +0.02473699</td> <td>RA = +0.06597065</td> <td>C = +0.02376943</td> <td>D = +0.00890603</td> <td>E = +0.0053A362</td> </tr> </tbody> </table>	AA = +0.61439992	BB = +0.23039997	CC = +0.22110396	DD = +0.08294398	E = +0.09766393	P = +0.63999991	A = +0.38399995	B = +0.23039997	RA = +0.10066127	C = +0.18239998	D = +0.08294398	E = +0.09766393	R = +41943029	A = -0.25163817	B = +0.15099490	BB = +0.06039796	C = -0.09059694	D = +0.05435816	E = +0.02614089	AA = +0.06597065	BB = +0.02473699	CC = +0.02376943	DD = +0.01424966	E = +0.0053A362	P = +0.6871943	A = +0.04123166	B = +0.02473699	RA = +0.06597065	C = +0.02376943	D = +0.00890603	E = +0.0053A362	<p>K = +6.00 N = +7</p> <table border="0"> <tbody> <tr> <td>AA = +0.61439992</td> <td>BB = +0.23039997</td> <td>CC = +0.22110396</td> <td>DD = +0.08294398</td> <td>E = +0.09766393</td> <td>P = +0.63999991</td> <td>A = +0.38399995</td> <td>B = +0.23039997</td> <td>RA = +0.10066127</td> <td>C = +0.18239998</td> <td>D = +0.08294398</td> <td>E = +0.09766393</td> <td>R = +41943029</td> <td>A = -0.25163817</td> <td>B = +0.15099490</td> <td>BB = +0.06039796</td> <td>C = -0.09059694</td> <td>D = +0.05435816</td> <td>E = +0.02614089</td> <td>AA = +0.06597065</td> <td>BB = +0.02473699</td> <td>CC = +0.02376943</td> <td>DD = +0.01424966</td> <td>E = +0.0053A362</td> <td>P = +0.6871943</td> <td>A = +0.04123166</td> <td>B = +0.02473699</td> <td>RA = +0.06597065</td> <td>C = +0.02376943</td> <td>D = +0.00890603</td> <td>E = +0.0053A362</td> </tr> </tbody> </table>	AA = +0.61439992	BB = +0.23039997	CC = +0.22110396	DD = +0.08294398	E = +0.09766393	P = +0.63999991	A = +0.38399995	B = +0.23039997	RA = +0.10066127	C = +0.18239998	D = +0.08294398	E = +0.09766393	R = +41943029	A = -0.25163817	B = +0.15099490	BB = +0.06039796	C = -0.09059694	D = +0.05435816	E = +0.02614089	AA = +0.06597065	BB = +0.02473699	CC = +0.02376943	DD = +0.01424966	E = +0.0053A362	P = +0.6871943	A = +0.04123166	B = +0.02473699	RA = +0.06597065	C = +0.02376943	D = +0.00890603	E = +0.0053A362	<p>K = +6.00 N = +12</p> <table border="0"> <tbody> <tr> <td>AA = +0.61439992</td> <td>BB = +0.23039997</td> <td>CC = +0.22110396</td> <td>DD = +0.08294398</td> <td>E = +0.09766393</td> <td>P = +0.63999991</td> <td>A = +0.38399995</td> <td>B = +0.23039997</td> <td>RA = +0.10066127</td> <td>C = +0.18239998</td> <td>D = +0.08294398</td> <td>E = +0.09766393</td> <td>R = +41943029</td> <td>A = -0.25163817</td> <td>B = +0.15099490</td> <td>BB = +0.06039796</td> <td>C = -0.09059694</td> <td>D = +0.05435816</td> <td>E = +0.02614089</td> <td>AA = +0.06597065</td> <td>BB = +0.02473699</td> <td>CC = +0.02376943</td> <td>DD = +0.01424966</td> <td>E = +0.0053A362</td> <td>P = +0.6871943</td> <td>A = +0.04123166</td> <td>B = +0.02473699</td> <td>RA = +0.06597065</td> <td>C = +0.02376943</td> <td>D = +0.00890603</td> <td>E = +0.0053A362</td> </tr> </tbody> </table>	AA = +0.61439992	BB = +0.23039997	CC = +0.22110396	DD = +0.08294398	E = +0.09766393	P = +0.63999991	A = +0.38399995	B = +0.23039997	RA = +0.10066127	C = +0.18239998	D = +0.08294398	E = +0.09766393	R = +41943029	A = -0.25163817	B = +0.15099490	BB = +0.06039796	C = -0.09059694	D = +0.05435816	E = +0.02614089	AA = +0.06597065	BB = +0.02473699	CC = +0.02376943	DD = +0.01424966	E = +0.0053A362	P = +0.6871943	A = +0.04123166	B = +0.02473699	RA = +0.06597065	C = +0.02376943	D = +0.00890603	E = +0.0053A362
AA = +0.61439992	BB = +0.23039997	CC = +0.22110396	DD = +0.08294398	E = +0.09766393	P = +0.63999991	A = +0.38399995	B = +0.23039997	RA = +0.10066127	C = +0.18239998	D = +0.08294398	E = +0.09766393	R = +41943029	A = -0.25163817	B = +0.15099490	BB = +0.06039796	C = -0.09059694	D = +0.05435816	E = +0.02614089	AA = +0.06597065	BB = +0.02473699	CC = +0.02376943	DD = +0.01424966	E = +0.0053A362	P = +0.6871943	A = +0.04123166	B = +0.02473699	RA = +0.06597065	C = +0.02376943	D = +0.00890603	E = +0.0053A362																																																																	
AA = +0.61439992	BB = +0.23039997	CC = +0.22110396	DD = +0.08294398	E = +0.09766393	P = +0.63999991	A = +0.38399995	B = +0.23039997	RA = +0.10066127	C = +0.18239998	D = +0.08294398	E = +0.09766393	R = +41943029	A = -0.25163817	B = +0.15099490	BB = +0.06039796	C = -0.09059694	D = +0.05435816	E = +0.02614089	AA = +0.06597065	BB = +0.02473699	CC = +0.02376943	DD = +0.01424966	E = +0.0053A362	P = +0.6871943	A = +0.04123166	B = +0.02473699	RA = +0.06597065	C = +0.02376943	D = +0.00890603	E = +0.0053A362																																																																	
AA = +0.61439992	BB = +0.23039997	CC = +0.22110396	DD = +0.08294398	E = +0.09766393	P = +0.63999991	A = +0.38399995	B = +0.23039997	RA = +0.10066127	C = +0.18239998	D = +0.08294398	E = +0.09766393	R = +41943029	A = -0.25163817	B = +0.15099490	BB = +0.06039796	C = -0.09059694	D = +0.05435816	E = +0.02614089	AA = +0.06597065	BB = +0.02473699	CC = +0.02376943	DD = +0.01424966	E = +0.0053A362	P = +0.6871943	A = +0.04123166	B = +0.02473699	RA = +0.06597065	C = +0.02376943	D = +0.00890603	E = +0.0053A362																																																																	
<p>K = +6.00 N = +3</p> <table border="0"> <tbody> <tr> <td>AA = -0.24575998</td> <td>BB = +0.08647359</td> <td>CC = +0.13271039</td> <td>DD = +0.07962623</td> <td>E = +0.10239990</td> <td>P = +1.02399990</td> <td>A = -0.61439994</td> <td>B = +0.36865996</td> <td>RA = +0.16106123</td> <td>C = +0.22110398</td> <td>D = +0.05308416</td> <td>E = +0.07962623</td> <td>R = +16777212</td> <td>A = +0.10066327</td> <td>B = +0.06039796</td> <td>BB = +0.09663674</td> <td>C = +0.05623877</td> <td>D = +0.02174326</td> <td>E = +0.01304596</td> <td>AA = -0.02636828</td> <td>BB = +0.03958242</td> <td>CC = +0.02949978</td> <td>DD = +0.01424967</td> <td>E = +0.00569986</td> <td>P = +1.0995117</td> <td>A = -0.06597070</td> <td>B = +0.03958242</td> <td>RA = +0.02636828</td> <td>C = +0.02949978</td> <td>D = +0.01424967</td> <td>E = +0.00569986</td> </tr> </tbody> </table>	AA = -0.24575998	BB = +0.08647359	CC = +0.13271039	DD = +0.07962623	E = +0.10239990	P = +1.02399990	A = -0.61439994	B = +0.36865996	RA = +0.16106123	C = +0.22110398	D = +0.05308416	E = +0.07962623	R = +16777212	A = +0.10066327	B = +0.06039796	BB = +0.09663674	C = +0.05623877	D = +0.02174326	E = +0.01304596	AA = -0.02636828	BB = +0.03958242	CC = +0.02949978	DD = +0.01424967	E = +0.00569986	P = +1.0995117	A = -0.06597070	B = +0.03958242	RA = +0.02636828	C = +0.02949978	D = +0.01424967	E = +0.00569986	<p>K = +6.00 N = +8</p> <table border="0"> <tbody> <tr> <td>AA = -0.24575998</td> <td>BB = +0.08647359</td> <td>CC = +0.13271039</td> <td>DD = +0.05308416</td> <td>E = +0.10239990</td> <td>P = +1.02399990</td> <td>A = -0.61439994</td> <td>B = +0.36865996</td> <td>RA = +0.16106123</td> <td>C = +0.22110398</td> <td>D = +0.05308416</td> <td>E = +0.07962623</td> <td>R = +16777212</td> <td>A = +0.10066327</td> <td>B = +0.06039796</td> <td>BB = +0.09663674</td> <td>C = +0.05623877</td> <td>D = +0.02174326</td> <td>E = +0.01304596</td> <td>AA = -0.02636828</td> <td>BB = +0.03958242</td> <td>CC = +0.02949978</td> <td>DD = +0.01424967</td> <td>E = +0.00569986</td> <td>P = +1.0995117</td> <td>A = -0.06597070</td> <td>B = +0.03958242</td> <td>RA = +0.02636828</td> <td>C = +0.02949978</td> <td>D = +0.01424967</td> <td>E = +0.00569986</td> </tr> </tbody> </table>	AA = -0.24575998	BB = +0.08647359	CC = +0.13271039	DD = +0.05308416	E = +0.10239990	P = +1.02399990	A = -0.61439994	B = +0.36865996	RA = +0.16106123	C = +0.22110398	D = +0.05308416	E = +0.07962623	R = +16777212	A = +0.10066327	B = +0.06039796	BB = +0.09663674	C = +0.05623877	D = +0.02174326	E = +0.01304596	AA = -0.02636828	BB = +0.03958242	CC = +0.02949978	DD = +0.01424967	E = +0.00569986	P = +1.0995117	A = -0.06597070	B = +0.03958242	RA = +0.02636828	C = +0.02949978	D = +0.01424967	E = +0.00569986	<p>K = +6.00 N = +13</p> <table border="0"> <tbody> <tr> <td>AA = -0.24575998</td> <td>BB = +0.08647359</td> <td>CC = +0.13271039</td> <td>DD = +0.07962623</td> <td>E = +0.10239990</td> <td>P = +1.02399990</td> <td>A = -0.61439994</td> <td>B = +0.36865996</td> <td>RA = +0.16106123</td> <td>C = +0.22110398</td> <td>D = +0.05308416</td> <td>E = +0.07962623</td> <td>R = +16777212</td> <td>A = +0.10066327</td> <td>B = +0.06039796</td> <td>BB = +0.09663674</td> <td>C = +0.05623877</td> <td>D = +0.02174326</td> <td>E = +0.01304596</td> <td>AA = -0.02636828</td> <td>BB = +0.03958242</td> <td>CC = +0.02949978</td> <td>DD = +0.01424967</td> <td>E = +0.00569986</td> <td>P = +1.0995117</td> <td>A = -0.06597070</td> <td>B = +0.03958242</td> <td>RA = +0.02636828</td> <td>C = +0.02949978</td> <td>D = +0.01424967</td> <td>E = +0.00569986</td> </tr> </tbody> </table>	AA = -0.24575998	BB = +0.08647359	CC = +0.13271039	DD = +0.07962623	E = +0.10239990	P = +1.02399990	A = -0.61439994	B = +0.36865996	RA = +0.16106123	C = +0.22110398	D = +0.05308416	E = +0.07962623	R = +16777212	A = +0.10066327	B = +0.06039796	BB = +0.09663674	C = +0.05623877	D = +0.02174326	E = +0.01304596	AA = -0.02636828	BB = +0.03958242	CC = +0.02949978	DD = +0.01424967	E = +0.00569986	P = +1.0995117	A = -0.06597070	B = +0.03958242	RA = +0.02636828	C = +0.02949978	D = +0.01424967	E = +0.00569986
AA = -0.24575998	BB = +0.08647359	CC = +0.13271039	DD = +0.07962623	E = +0.10239990	P = +1.02399990	A = -0.61439994	B = +0.36865996	RA = +0.16106123	C = +0.22110398	D = +0.05308416	E = +0.07962623	R = +16777212	A = +0.10066327	B = +0.06039796	BB = +0.09663674	C = +0.05623877	D = +0.02174326	E = +0.01304596	AA = -0.02636828	BB = +0.03958242	CC = +0.02949978	DD = +0.01424967	E = +0.00569986	P = +1.0995117	A = -0.06597070	B = +0.03958242	RA = +0.02636828	C = +0.02949978	D = +0.01424967	E = +0.00569986																																																																	
AA = -0.24575998	BB = +0.08647359	CC = +0.13271039	DD = +0.05308416	E = +0.10239990	P = +1.02399990	A = -0.61439994	B = +0.36865996	RA = +0.16106123	C = +0.22110398	D = +0.05308416	E = +0.07962623	R = +16777212	A = +0.10066327	B = +0.06039796	BB = +0.09663674	C = +0.05623877	D = +0.02174326	E = +0.01304596	AA = -0.02636828	BB = +0.03958242	CC = +0.02949978	DD = +0.01424967	E = +0.00569986	P = +1.0995117	A = -0.06597070	B = +0.03958242	RA = +0.02636828	C = +0.02949978	D = +0.01424967	E = +0.00569986																																																																	
AA = -0.24575998	BB = +0.08647359	CC = +0.13271039	DD = +0.07962623	E = +0.10239990	P = +1.02399990	A = -0.61439994	B = +0.36865996	RA = +0.16106123	C = +0.22110398	D = +0.05308416	E = +0.07962623	R = +16777212	A = +0.10066327	B = +0.06039796	BB = +0.09663674	C = +0.05623877	D = +0.02174326	E = +0.01304596	AA = -0.02636828	BB = +0.03958242	CC = +0.02949978	DD = +0.01424967	E = +0.00569986	P = +1.0995117	A = -0.06597070	B = +0.03958242	RA = +0.02636828	C = +0.02949978	D = +0.01424967	E = +0.00569986																																																																	
<p>K = +6.00 N = +4</p> <table border="0"> <tbody> <tr> <td>AA = +0.39321594</td> <td>BB = +0.14745595</td> <td>CC = +0.08847358</td> <td>DD = +0.05304615</td> <td>E = +0.03185049</td> <td>P = +0.40959994</td> <td>A = +0.24575996</td> <td>B = +0.14745595</td> <td>RA = +0.23592956</td> <td>C = +0.08847358</td> <td>D = +0.05304615</td> <td>E = +0.03185049</td> <td>R = +26843535</td> <td>A = -0.16106121</td> <td>B = +0.09663674</td> <td>BB = +0.03865469</td> <td>C = +0.05726203</td> <td>D = +0.03470922</td> <td>E = +0.02087153</td> <td>AA = +0.04222123</td> <td>BB = +0.01581296</td> <td>CC = +0.01510996</td> <td>DD = +0.01391568</td> <td>E = +0.00361992</td> <td>P = +0.4398045</td> <td>A = +0.02636827</td> <td>B = +0.01581296</td> <td>RA = +0.04222123</td> <td>C = +0.01510996</td> <td>D = +0.01391568</td> <td>E = +0.00361992</td> </tr> </tbody> </table>	AA = +0.39321594	BB = +0.14745595	CC = +0.08847358	DD = +0.05304615	E = +0.03185049	P = +0.40959994	A = +0.24575996	B = +0.14745595	RA = +0.23592956	C = +0.08847358	D = +0.05304615	E = +0.03185049	R = +26843535	A = -0.16106121	B = +0.09663674	BB = +0.03865469	C = +0.05726203	D = +0.03470922	E = +0.02087153	AA = +0.04222123	BB = +0.01581296	CC = +0.01510996	DD = +0.01391568	E = +0.00361992	P = +0.4398045	A = +0.02636827	B = +0.01581296	RA = +0.04222123	C = +0.01510996	D = +0.01391568	E = +0.00361992	<p>K = +6.00 N = +9</p> <table border="0"> <tbody> <tr> <td>AA = +0.39321594</td> <td>BB = +0.14745595</td> <td>CC = +0.08847358</td> <td>DD = +0.08493464</td> <td>E = +0.03185049</td> <td>P = +0.40959994</td> <td>A = +0.24575996</td> <td>B = +0.14745595</td> <td>RA = +0.23592956</td> <td>C = +0.08847358</td> <td>D = +0.08493464</td> <td>E = +0.03185049</td> <td>R = +26843535</td> <td>A = -0.16106121</td> <td>B = +0.09663674</td> <td>BB = +0.03865469</td> <td>C = +0.05726203</td> <td>D = +0.03470922</td> <td>E = +0.02087153</td> <td>AA = +0.04222123</td> <td>BB = +0.01581296</td> <td>CC = +0.01510996</td> <td>DD = +0.01391568</td> <td>E = +0.00361992</td> <td>P = +0.4398045</td> <td>A = +0.02636827</td> <td>B = +0.01581296</td> <td>RA = +0.04222123</td> <td>C = +0.01510996</td> <td>D = +0.01391568</td> <td>E = +0.00361992</td> </tr> </tbody> </table>	AA = +0.39321594	BB = +0.14745595	CC = +0.08847358	DD = +0.08493464	E = +0.03185049	P = +0.40959994	A = +0.24575996	B = +0.14745595	RA = +0.23592956	C = +0.08847358	D = +0.08493464	E = +0.03185049	R = +26843535	A = -0.16106121	B = +0.09663674	BB = +0.03865469	C = +0.05726203	D = +0.03470922	E = +0.02087153	AA = +0.04222123	BB = +0.01581296	CC = +0.01510996	DD = +0.01391568	E = +0.00361992	P = +0.4398045	A = +0.02636827	B = +0.01581296	RA = +0.04222123	C = +0.01510996	D = +0.01391568	E = +0.00361992	<p>K = +6.00 N = +14</p> <table border="0"> <tbody> <tr> <td>AA = +0.39321594</td> <td>BB = +0.14745595</td> <td>CC = +0.08847358</td> <td>DD = +0.08493464</td> <td>E = +0.03185049</td> <td>P = +0.40959994</td> <td>A = +0.24575996</td> <td>B = +0.14745595</td> <td>RA = +0.23592956</td> <td>C = +0.08847358</td> <td>D = +0.08493464</td> <td>E = +0.03185049</td> <td>R = +26843535</td> <td>A = -0.16106121</td> <td>B = +0.09663674</td> <td>BB = +0.03865469</td> <td>C = +0.05726203</td> <td>D = +0.03470922</td> <td>E = +0.02087153</td> <td>AA = +0.04222123</td> <td>BB = +0.01581296</td> <td>CC = +0.01510996</td> <td>DD = +0.01391568</td> <td>E = +0.00361992</td> <td>P = +0.4398045</td> <td>A = +0.02636827</td> <td>B = +0.01581296</td> <td>RA = +0.04222123</td> <td>C = +0.01510996</td> <td>D = +0.01391568</td> <td>E = +0.00361992</td> </tr> </tbody> </table>	AA = +0.39321594	BB = +0.14745595	CC = +0.08847358	DD = +0.08493464	E = +0.03185049	P = +0.40959994	A = +0.24575996	B = +0.14745595	RA = +0.23592956	C = +0.08847358	D = +0.08493464	E = +0.03185049	R = +26843535	A = -0.16106121	B = +0.09663674	BB = +0.03865469	C = +0.05726203	D = +0.03470922	E = +0.02087153	AA = +0.04222123	BB = +0.01581296	CC = +0.01510996	DD = +0.01391568	E = +0.00361992	P = +0.4398045	A = +0.02636827	B = +0.01581296	RA = +0.04222123	C = +0.01510996	D = +0.01391568	E = +0.00361992
AA = +0.39321594	BB = +0.14745595	CC = +0.08847358	DD = +0.05304615	E = +0.03185049	P = +0.40959994	A = +0.24575996	B = +0.14745595	RA = +0.23592956	C = +0.08847358	D = +0.05304615	E = +0.03185049	R = +26843535	A = -0.16106121	B = +0.09663674	BB = +0.03865469	C = +0.05726203	D = +0.03470922	E = +0.02087153	AA = +0.04222123	BB = +0.01581296	CC = +0.01510996	DD = +0.01391568	E = +0.00361992	P = +0.4398045	A = +0.02636827	B = +0.01581296	RA = +0.04222123	C = +0.01510996	D = +0.01391568	E = +0.00361992																																																																	
AA = +0.39321594	BB = +0.14745595	CC = +0.08847358	DD = +0.08493464	E = +0.03185049	P = +0.40959994	A = +0.24575996	B = +0.14745595	RA = +0.23592956	C = +0.08847358	D = +0.08493464	E = +0.03185049	R = +26843535	A = -0.16106121	B = +0.09663674	BB = +0.03865469	C = +0.05726203	D = +0.03470922	E = +0.02087153	AA = +0.04222123	BB = +0.01581296	CC = +0.01510996	DD = +0.01391568	E = +0.00361992	P = +0.4398045	A = +0.02636827	B = +0.01581296	RA = +0.04222123	C = +0.01510996	D = +0.01391568	E = +0.00361992																																																																	
AA = +0.39321594	BB = +0.14745595	CC = +0.08847358	DD = +0.08493464	E = +0.03185049	P = +0.40959994	A = +0.24575996	B = +0.14745595	RA = +0.23592956	C = +0.08847358	D = +0.08493464	E = +0.03185049	R = +26843535	A = -0.16106121	B = +0.09663674	BB = +0.03865469	C = +0.05726203	D = +0.03470922	E = +0.02087153	AA = +0.04222123	BB = +0.01581296	CC = +0.01510996	DD = +0.01391568	E = +0.00361992	P = +0.4398045	A = +0.02636827	B = +0.01581296	RA = +0.04222123	C = +0.01510996	D = +0.01391568	E = +0.00361992																																																																	
<p>K = +6.00 N = +5</p> <table border="0"> <tbody> <tr> <td>AA = -0.15720635</td> <td>BB = +0.02352953</td> <td>CC = +0.14155772</td> <td>DD = +0.08495463</td> <td>E = +0.05096017</td> <td>P = +0.65535980</td> <td>A = -0.39321586</td> <td>B = +0.23592713</td> <td>RA = +0.09437181</td> <td>C = +0.14155772</td> <td>D = +0.08495463</td> <td>E = +0.05096017</td> <td>R = +10737414</td> <td>A = +0.06642464</td> <td>B = +0.03065464</td> <td>BB = +0.06184750</td> <td>C = +0.02319281</td> <td>D = +0.01391568</td> <td>E = +0.00834941</td> <td>AA = -0.01608848</td> <td>BB = +0.0222120</td> <td>CC = +0.02591972</td> <td>DD = +0.0222A510</td> <td>E = +0.00547186</td> <td>P = +0.70363667</td> <td>A = -0.04222120</td> <td>B = +0.02591972</td> <td>RA = +0.01608848</td> <td>C = +0.02591972</td> <td>D = +0.0222A510</td> <td>E = +0.00547186</td> </tr> </tbody> </table>	AA = -0.15720635	BB = +0.02352953	CC = +0.14155772	DD = +0.08495463	E = +0.05096017	P = +0.65535980	A = -0.39321586	B = +0.23592713	RA = +0.09437181	C = +0.14155772	D = +0.08495463	E = +0.05096017	R = +10737414	A = +0.06642464	B = +0.03065464	BB = +0.06184750	C = +0.02319281	D = +0.01391568	E = +0.00834941	AA = -0.01608848	BB = +0.0222120	CC = +0.02591972	DD = +0.0222A510	E = +0.00547186	P = +0.70363667	A = -0.04222120	B = +0.02591972	RA = +0.01608848	C = +0.02591972	D = +0.0222A510	E = +0.00547186	<p>K = +6.00 N = +10</p> <table border="0"> <tbody> <tr> <td>AA = -0.15720635</td> <td>BB = +0.02352953</td> <td>CC = +0.14155772</td> <td>DD = +0.08495463</td> <td>E = +0.05096017</td> <td>P = +0.65535980</td> <td>A = -0.39321586</td> <td>B = +0.23592713</td> <td>RA = +0.09437181</td> <td>C = +0.14155772</td> <td>D = +0.08495463</td> <td>E = +0.05096017</td> <td>R = +10737414</td> <td>A = +0.06642464</td> <td>B = +0.03065464</td> <td>BB = +0.06184750</td> <td>C = +0.02319281</td> <td>D = +0.01391568</td> <td>E = +0.00834941</td> <td>AA = -0.01608848</td> <td>BB = +0.0222120</td> <td>CC = +0.02591972</td> <td>DD = +0.0222A510</td> <td>E = +0.00547186</td> <td>P = +0.70363667</td> <td>A = -0.04222120</td> <td>B = +0.02591972</td> <td>RA = +0.01608848</td> <td>C = +0.02591972</td> <td>D = +0.0222A510</td> <td>E = +0.00547186</td> </tr> </tbody> </table>	AA = -0.15720635	BB = +0.02352953	CC = +0.14155772	DD = +0.08495463	E = +0.05096017	P = +0.65535980	A = -0.39321586	B = +0.23592713	RA = +0.09437181	C = +0.14155772	D = +0.08495463	E = +0.05096017	R = +10737414	A = +0.06642464	B = +0.03065464	BB = +0.06184750	C = +0.02319281	D = +0.01391568	E = +0.00834941	AA = -0.01608848	BB = +0.0222120	CC = +0.02591972	DD = +0.0222A510	E = +0.00547186	P = +0.70363667	A = -0.04222120	B = +0.02591972	RA = +0.01608848	C = +0.02591972	D = +0.0222A510	E = +0.00547186	<p>K = +6.00 N = +15</p> <table border="0"> <tbody> <tr> <td>AA = -0.15720635</td> <td>BB = +0.02352953</td> <td>CC = +0.14155772</td> <td>DD = +0.08495463</td> <td>E = +0.05096017</td> <td>P = +0.65535980</td> <td>A = -0.39321586</td> <td>B = +0.23592713</td> <td>RA = +0.09437181</td> <td>C = +0.14155772</td> <td>D = +0.08495463</td> <td>E = +0.05096017</td> <td>R = +10737414</td> <td>A = +0.06642464</td> <td>B = +0.03065464</td> <td>BB = +0.06184750</td> <td>C = +0.02319281</td> <td>D = +0.01391568</td> <td>E = +0.00834941</td> <td>AA = -0.01608848</td> <td>BB = +0.0222120</td> <td>CC = +0.02591972</td> <td>DD = +0.0222A510</td> <td>E = +0.00547186</td> <td>P = +0.70363667</td> <td>A = -0.04222120</td> <td>B = +0.02591972</td> <td>RA = +0.01608848</td> <td>C = +0.02591972</td> <td>D = +0.0222A510</td> <td>E = +0.00547186</td> </tr> </tbody> </table>	AA = -0.15720635	BB = +0.02352953	CC = +0.14155772	DD = +0.08495463	E = +0.05096017	P = +0.65535980	A = -0.39321586	B = +0.23592713	RA = +0.09437181	C = +0.14155772	D = +0.08495463	E = +0.05096017	R = +10737414	A = +0.06642464	B = +0.03065464	BB = +0.06184750	C = +0.02319281	D = +0.01391568	E = +0.00834941	AA = -0.01608848	BB = +0.0222120	CC = +0.02591972	DD = +0.0222A510	E = +0.00547186	P = +0.70363667	A = -0.04222120	B = +0.02591972	RA = +0.01608848	C = +0.02591972	D = +0.0222A510	E = +0.00547186
AA = -0.15720635	BB = +0.02352953	CC = +0.14155772	DD = +0.08495463	E = +0.05096017	P = +0.65535980	A = -0.39321586	B = +0.23592713	RA = +0.09437181	C = +0.14155772	D = +0.08495463	E = +0.05096017	R = +10737414	A = +0.06642464	B = +0.03065464	BB = +0.06184750	C = +0.02319281	D = +0.01391568	E = +0.00834941	AA = -0.01608848	BB = +0.0222120	CC = +0.02591972	DD = +0.0222A510	E = +0.00547186	P = +0.70363667	A = -0.04222120	B = +0.02591972	RA = +0.01608848	C = +0.02591972	D = +0.0222A510	E = +0.00547186																																																																	
AA = -0.15720635	BB = +0.02352953	CC = +0.14155772	DD = +0.08495463	E = +0.05096017	P = +0.65535980	A = -0.39321586	B = +0.23592713	RA = +0.09437181	C = +0.14155772	D = +0.08495463	E = +0.05096017	R = +10737414	A = +0.06642464	B = +0.03065464	BB = +0.06184750	C = +0.02319281	D = +0.01391568	E = +0.00834941	AA = -0.01608848	BB = +0.0222120	CC = +0.02591972	DD = +0.0222A510	E = +0.00547186	P = +0.70363667	A = -0.04222120	B = +0.02591972	RA = +0.01608848	C = +0.02591972	D = +0.0222A510	E = +0.00547186																																																																	
AA = -0.15720635	BB = +0.02352953	CC = +0.14155772	DD = +0.08495463	E = +0.05096017	P = +0.65535980	A = -0.39321586	B = +0.23592713	RA = +0.09437181	C = +0.14155772	D = +0.08495463	E = +0.05096017	R = +10737414	A = +0.06642464	B = +0.03065464	BB = +0.06184750	C = +0.02319281	D = +0.01391568	E = +0.00834941	AA = -0.01608848	BB = +0.0222120	CC = +0.02591972	DD = +0.0222A510	E = +0.00547186	P = +0.70363667	A = -0.04222120	B = +0.02591972	RA = +0.01608848	C = +0.02591972	D = +0.0222A510	E = +0.00547186																																																																	

$K = +4.00$	$N = +16$	$K = +4.00$	$N = +21$	$K = +4.00$	$N = +26$	
AA = +.02702156	P = +.02914746 A = +.0166847 B = +.01013308 C = +.00607985 D = +.00364791 E = +.00218874	BB = +.01621293	AA = -.00442721 B = +.00664082 C = +.00391449 D = +.00239069 E = +.00143441	P = +.011846673 A = -.01106804 B = +.00265632 C = +.00095627	AA = +.00290142 B = +.00108003 C = +.00065201 D = +.00039169 E = +.00023501	P = +.00307231 A = +.00181338 B = +.00108003 BB = +.00174085
CC = +.00972776	DD = +.00083665	EE =	CC = -.00159379	BB = +.00425612	CC = +.00104451	DD = +.00062670

$K = +4.00$	$N = +17$	$K = +4.00$	$N = +22$	$K = +4.00$	$N = +27$	
AA = -.01080064	P = +.04503600 A = +.02702160 B = +.01621296 CC = +.00389111 C = +.00917777 D = +.00583666 E = +.00350199	BB = +.000648518	AA = +.00708354 B = +.00255007	P = +.00737869 A = +.00442721 B = +.00265632 C = +.00159379 D = +.00095627 E = +.00057376	AA = +.00116056 B = +.00041780	P = +.00483569 A = +.00290141 B = +.00174085 C = +.00104451 D = +.00062670 E = +.00037602
CC = +.00622977	DD = +.00233466	EE =	CC = +.000102003	BB = +.000170005	CC = +.00041780	BB = +.00069634

$K = +4.00$	$N = +18$	$K = +4.00$	$N = +23$	$K = +4.00$	$N = +28$	
AA = +.01729382	P = +.01801439 A = +.01080063 B = +.00648518 CC = +.00622977 C = +.00389110 D = +.00233466 E = +.00180079	BB = +.01037629	AA = +.00283341 B = +.000425012 CC = +.000102003	P = +.01180591 A = +.00708354 B = +.000425012 C = +.00255007 D = +.001593004 E = +.00091802	AA = +.00185690 B = +.00066848 CC = +.00066848 D = +.00025068 E = +.00015040	P = +.00193428 A = +.00116056 B = +.00069634 BB = +.00111414 C = +.00041780 D = +.00040109
CC = +.00622977	DD = +.00373546	EE =	CC = +.000163204	BB = +.000170005	CC = +.00026739	BB = +.00044565

$K = +4.00$	$N = +19$	$K = +4.00$	$N = +24$	$K = +4.00$	$N = +29$	
AA = -.00691752	P = +.02882301 A = +.01729381 B = +.01037628 CC = +.00249030 C = +.00622977 D = +.00373546 E = +.00224127	BB = +.00415051	AA = +.00453346 B = +.00170005 CC = +.000163204	P = +.00472236 A = +.00283341 B = +.000170005 C = +.00102003 D = +.00061301 E = +.00036721	AA = +.00074276 B = +.00111414 CC = +.000917922	P = +.00309484 A = +.00185690 B = +.00111414 CC = +.00066848 D = +.00040109 E = +.00024065
CC = +.00249030	DD = +.00149418	EE =	CC = +.000163204	BB = +.000272008	CC = +.00026739	BB = +.00044565

$K = +4.00$	$N = +20$	$K = +4.00$	$N = +25$	$K = +4.00$	$N = +30$	
AA = +.01106003	P = +.01152920 A = +.00691752 B = +.00415051 CC = +.0039A449 C = +.00249030 D = +.00149418 E = +.00089651	BB = +.00664082	AA = +.00181338 B = +.00272008 CC = +.00065281	P = +.000755578 A = +.00053346 B = +.001693204 C = +.00097922 D = +.00058753	AA = +.00118642 B = +.00042783 CC = +.00042783	P = +.00121793 A = +.00074276 B = +.00042565 BB = +.00071305 C = +.00026739 D = +.00016043 E = +.00008526
CC = +.0039A449	DD = +.00219069	EE =	CC = +.00065281	BB = +.00108803 D = +.00097922 E = +.00058753	CC = +.00042783	BB = +.00025669

$K = +4.50$	$N = +1$	$K = +4.50$	$N = +6$	$K = +4.50$	$N = +11$	$K = +4.50$	$N = +12$		
AA = -0.37866270	P = +1.63636300 A = -1.04132230 B = +0.66262963 CC = -0.15334274 D = +0.26634975 E = -0.17076803	AA = +0.21939492 B = +0.08532024 CC = +0.08884587 D = +0.03455117 E = +0.02198711	P = +0.21068878 A = +0.13407460 B = +0.05429470 CC = +0.05653828	AA = -0.02824802 B = +0.04943404 CC = -0.01143928 D = +0.02001874 E = -0.01273920	P = +0.12207183 A = -0.07768207 B = +0.04943404 CC = -0.01143928 D = +0.02001874 E = -0.01273920	AA = +0.04622404 B = +0.01797601 CC = +0.00727954	AA = +0.04438975 A = +0.02824802 B = +0.01797601 CC = +0.01143928 D = +0.00727954 E = +0.00463243		
$K = +4.50$	$N = +2$	$K = +4.50$	$N = +7$	$K = +4.50$	$N = +11$	$K = +4.50$	$N = +12$		
AA = +0.81962981	P = +0.59504133 A = +0.57866266 B = +0.24096715 CC = +0.25092446 C = +0.15534273 D = +0.09758173 E = +0.06209746	AA = -0.07977998 B = +0.03230759 CC = +0.03230759 D = +0.05653828 E = -0.03597890	P = +0.34476346 A = -0.21939493 B = +0.19963495 CC = +0.08884587 D = +0.05653828 E = -0.03597890	AA = +0.04622404 B = +0.01871082 CC = +0.02055937	AA = +0.04622404 B = +0.01797601 CC = +0.01143928 D = +0.00727954 E = +0.00463243	AA = +0.04622404 B = +0.01797601 CC = +0.01143928 D = +0.00727954 E = +0.00463243	AA = +0.02941529 B = +0.01191398	AA = +0.04438975 A = +0.02824802 B = +0.01797601 CC = +0.01143928 D = +0.00727954 E = +0.00463243	
$K = +4.50$	$N = +3$	$K = +4.50$	$N = +8$	$K = +4.50$	$N = +11$	$K = +4.50$	$N = +12$		
AA = -0.22531993	P = +0.97370397 A = -0.61962979 B = +0.39430986 CC = -0.09124527 C = +0.25092446 D = +0.15967919 E = -0.10161403	AA = +0.13054904 B = +0.05286696 CC = +0.05286696 D = +0.02055937 E = +0.01908329	P = +0.12536859 A = +0.07977997 B = +0.05076807 CC = +0.05286696 D = +0.02055937 E = +0.01908329	AA = -0.01680874 B = +0.03007666 CC = -0.00680664 D = +0.01191198 E = +0.00760033	AA = -0.01680874 B = +0.02941530 CC = +0.01871082 D = +0.01191198 E = +0.00760033	AA = -0.01680874 B = +0.02941530 CC = +0.01871082 D = +0.01191198 E = +0.00760033	AA = +0.01680874 B = +0.02941530 CC = +0.01871082 D = +0.01191198 E = +0.00760033	AA = +0.02941529 B = +0.01191398	AA = +0.04438975 A = +0.02824802 B = +0.01797601 CC = +0.01143928 D = +0.00727954 E = +0.00463243
$K = +4.50$	$N = +4$	$K = +4.50$	$N = +9$	$K = +4.50$	$N = +11$	$K = +4.50$	$N = +12$		
AA = +0.36870532	P = +0.35407417 A = +0.22331992 B = +0.14318540 CC = +0.14933041 C = +0.09124525 D = +0.05806516 E = +0.03695055	AA = +0.04747238 B = +0.01922435 CC = +0.01922435 D = +0.03364261 E = -0.02140893	P = +0.20514849 A = -0.13054904 B = +0.08807666 CC = +0.03286696 D = +0.01223367	AA = +0.02750521 B = +0.01069467 CC = +0.01711387 D = +0.00453162 E = +0.00275649	AA = +0.02750521 B = +0.01069467 CC = +0.01711387 D = +0.00453162 E = +0.00275649	AA = +0.02750521 B = +0.01069467 CC = +0.01711387 D = +0.00453162 E = +0.00275649	AA = +0.02750521 B = +0.01069467 CC = +0.01711387 D = +0.00453162 E = +0.00275649	AA = +0.02941529 B = +0.01191398	AA = +0.04438975 A = +0.02824802 B = +0.01797601 CC = +0.01143928 D = +0.00727954 E = +0.00463243
$K = +4.50$	$N = +5$	$K = +4.50$	$N = +10$	$K = +4.50$	$N = +11$	$K = +4.50$	$N = +12$		
AA = -0.13407468	P = +0.57939416 A = +0.36870532 B = +0.23447049 CC = +0.05429472 C = +0.14931044 D = +0.09501572 E = +0.06046435	AA = +0.07768206 B = +0.03020969 CC = +0.03145803	P = +0.07459946 A = +0.04747238 B = +0.01922435 CC = +0.01223367 E = +0.00778506	AA = -0.01000189 B = +0.064943405 CC = -0.00405039 D = +0.02001874	AA = -0.01000189 B = +0.01750521 CC = -0.00405039 D = +0.02001874	AA = -0.01000189 B = +0.01750521 CC = -0.00405039 D = +0.02001874	AA = -0.01000189 B = +0.01750521 CC = -0.00405039 D = +0.02001874	AA = +0.04438975 A = +0.02824802 B = +0.01797601 CC = +0.01143928 D = +0.00727954 E = +0.00463243	

$K = +4.50$	$N = +16$	$K = +4.50$	$N = +21$	$K = +4.50$	$N = +25$
AA = +.01636674	P = +.01571727 A = +.01000190 BB = +.00636494 CC = +.00662785 C = +.00405095 D = +.00257749 E = +.00140222	AA = -.00210728 A = -.00579903 B = +.00368775 BB = +.00134100 CC = +.00085336 C = +.00234675 D = +.00149138 E = +.00095035	P = +.00910648 A = +.00122095 B = +.00049443 BB = +.00058304	AA = +.00122095 A = +.00074613 B = +.00047481 BB = +.00077696 CC = +.00049443 C = +.00030215 D = +.00019228 E = +.00012236	P = +.00117250 A = +.00074613 B = +.00047481 BB = +.00077696 CC = +.00049443 C = +.00030215 D = +.00019228 E = +.00012236
$K = +4.50$	$N = +17$	$K = +4.50$	$N = +22$	$K = +4.50$	$N = +27$
AA = -.00595154	P = +.02571918 A = +.01536675 B = +.01041520 BB = +.00378734 CC = +.00241013 C = +.00662785 D = +.00421772 E = +.00268400	AA = +.00344828 A = +.00210728 B = +.00134100 BB = +.00219436 CC = +.00139641 C = +.00085336 D = +.00054304 E = +.00034557	P = +.00131145 A = +.00122095 B = +.00044398 BB = +.00058862	AA = +.00044398 A = +.00074613 B = +.00047481 BB = +.00028253 CC = +.00017979 C = +.00049443 D = +.00031464 E = +.00020022	P = +.02191863 A = +.00122095 B = +.00074613 BB = +.00028253 CC = +.00017979 C = +.00049443 D = +.00031464 E = +.00020022
$K = +4.50$	$N = +18$	$K = +4.50$	$N = +23$	$K = +4.50$	$N = +28$
AA = +.00973889	P = +.00935243 A = +.00595154 B = +.00378734 BB = +.00619747 CC = +.00394384 C = +.00241013 D = +.00193371 E = +.00097600	AA = +.00125392 A = +.00344828 B = +.00219436 BB = +.00079785 CC = +.00050778 C = +.00139641 D = +.00088862 E = +.00036549	P = +.00541873 A = +.00125392 B = +.00079785 BB = +.00032313	AA = +.00072651 A = +.00044398 B = +.00028253 BB = +.00017979 CC = +.00029420 C = +.00011441 D = +.00007280	P = +.00069768 A = +.00044398 B = +.00028253 BB = +.00017979 CC = +.00011441 C = +.00007280
$K = +4.50$	$N = +19$	$K = +4.50$	$N = +24$	$K = +4.50$	$N = +29$
AA = +.00354141	P = +.01530397 A = +.00973888 B = +.00619747 BB = +.00225362 CC = +.00143412 C = +.00394384 D = +.00256972 E = +.00159709	AA = +.00205187 A = +.00125392 B = +.00079785 BB = +.000130573 CC = +.00083092 C = +.00050778 D = +.00032313 E = +.00020563	P = +.00197045 A = +.00125392 B = +.00079785 BB = +.000130573 CC = +.00010698 C = +.00029420 D = +.00018722 E = +.00011914	AA = +.00026418 A = +.00016811 B = +.00046232 BB = +.00029420 CC = +.00018722 C = +.00006808	P = +.00114186 A = +.00072651 B = +.00046232 BB = +.00029420 CC = +.00018722 C = +.00006808
$K = +4.50$	$N = +20$	$K = +4.50$	$N = +25$	$K = +4.50$	$N = +30$
AA = +.00579604	P = +.005956507 A = +.00354141 B = +.00225362 BB = +.00368775 CC = +.00234675 C = +.00143412 D = +.00091262 E = +.00058076	AA = +.00074613 A = +.00205187 B = +.00130573 BB = +.00047481 CC = +.00030215 C = +.00083092 D = +.00052876 E = +.00036468	P = +.00322437 A = +.00205187 B = +.00130573 BB = +.00047481 CC = +.00017506 C = +.00016811 D = +.0006808 E = +.00004332	AA = +.00043200 A = +.00026418 B = +.00016811 BB = +.00027510 CC = +.00017506 C = +.00016811 D = +.0006808 E = +.00004332	P = +.00041515 A = +.00026418 B = +.00016811 BB = +.00027510 CC = +.00017506 C = +.00016811 D = +.0006808 E = +.00004332

K = +9.00	N = +1	P = +1.66666660	A = -1.11111110	B = +.74074070	BB = +.24691397	AA = -.37037040	CC = -.16460904	K = +5.00	N = +6	P = +.17146774	A = +.11431110	B = +.07620788	BB = +.12701313	AA = +.19051971	CC = +.08467542	K = +9.00	N = +11	P = +.08820359	A = -.05880239	B = +.03920159	BB = +.01506719
D = +.32921869	DD = +.10973937	E = -.21967872						C = +.05080925	D = +.03387017	E = +.02258011					CC = +.00871146	DD = +.05645028	E = +.0116152				
K = +5.00	N = +2	P = +.55555548	A = +.37037042	B = +.24691354	BB = +.41152297	AA = +.61726386	CC = +.27434838	K = +5.00	N = +7	P = +.28577957	A = -.19051971	B = +.12701314	BB = +.04233772	AA = +.06350657	CC = +.02822514	K = +5.00	N = +12	P = +.02940117	A = +.01960078	B = +.01306718	BB = +.02177864
C = +.16460903	DD = +.10973935	E = +.07315956						C = +.08467542	D = +.05845028	E = +.03763352					CC = +.01451909	DD = +.00580763	E = +.00387175				
K = +5.00	N = +3	P = +.92592589	A = -.61728392	B = +.41152261	BB = +.13717420	AA = +.20576131	CC = +.09144947	K = +5.00	N = +6	P = +.09525965	A = +.10584427	B = +.04233771	BB = +.07056285	AA = +.10584427	CC = +.04704190	K = +5.00	N = +13	P = +.04900196	A = -.03266797	B = +.02177864	BB = +.00725955
C = +.27434841	DD = +.18289894	E = +.12193262						C = +.02822514	D = +.03136126	E = +.01254450					CC = +.00483970	DD = +.00967539	E = +.00645293				
K = +5.00	N = +4	P = +.30864194	A = +.20576129	B = +.15717619	BB = +.22862365	AA = +.34293548	CC = +.15241577	K = +5.00	N = +9	P = +.15876642	A = +.10584428	B = +.07056285	BB = +.02352095	AA = +.03528143	CC = +.01568063	K = +5.00	N = +14	P = +.16333999	A = +.01088432	B = +.00725955	BB = +.01209925
C = +.09144946	DD = +.08096630	E = +.04064420						C = +.04704190	D = +.01045375	E = +.02090751					CC = +.00806616	DD = +.00537744	E = +.00215097				
K = +5.00	N = +5	P = +.51440322	A = +.34293548	B = +.22862365	BB = +.07620788	AA = +.11431183	CC = +.05080526	K = +5.00	N = +10	P = +.05292213	A = +.03528142	B = +.02352095	BB = +.03920158	AA = +.05180237	CC = +.02613438	K = +5.00	N = +15	P = +.02722330	A = +.01614086	B = +.01209924	BB = +.00403308
C = +.15241577	DD = +.10181051	E = +.06774034						C = +.01588083	D = +.01045375	E = +.00696917					CC = +.00268872	DD = +.00537744	E = +.00358496				

$K = +5.00$	$N = +16$	$K = +5.00$	$N = +21$	$K = +5.00$	$N = +26$		
AA = +.01008270	P = +.00907443 A = +.00604962 B = +.00403308 CC = +.00448120 C = +.00208872 D = +.00179248 E = +.00119498	BB = +.00672180	AA = -.00103731 CC = -.00046102 D = +.00298746 E = -.00961470	P = +.00466792 A = -.00311194 B = +.00207463 C = -.00198308 D = +.00092205 E = +.00050735	BB = +.00069154 CC = +.00023715 DD = +.00050735	AA = +.00053359 B = +.00021343 C = +.00014229 D = +.00009486 E = +.00006324	P = +.00048023 A = +.00032015 B = +.00021343 C = +.00014229 D = +.00009486 E = +.00006324
$K = +5.00$	$N = +17$	$K = +5.00$	$N = +22$	$K = +5.00$	$N = +27$		
AA = -.00936090	P = +.01312408 A = +.01008271 B = +.00672180 CC = -.00149373 C = +.00448120 D = +.00298746 E = +.001199164	BB = +.002284060	AA = +.00172885 CC = +.00076838 D = +.00030735 E = +.00020490	P = +.00155597 A = +.00103731 B = +.00049154 C = +.00046102 D = +.00030735 E = +.00020490	BB = +.00115257 CC = +.00007905 DD = +.00051225	AA = +.00017786 B = +.00035255 CC = +.00007905 D = +.00015810 E = +.00010540	P = +.00080039 A = +.00053359 B = +.00035255 C = +.00023715 D = +.00015810 E = +.00005270
$K = +5.00$	$N = +18$	$K = +5.00$	$N = +23$	$K = +5.00$	$N = +28$		
AA = +.00560150	P = +.00564135 A = +.00336090 B = +.002246060 CC = +.00248955 C = +.00149373 D = +.00099582 E = +.00066388	BB = +.00373433	AA = +.00057628 CC = +.00025612 D = +.00051225 E = +.00034150	P = +.0025932 A = +.00172885 B = +.00115257 C = +.00076838 D = +.00017075 E = +.00002984	BB = +.00036419 CC = +.00013175 DD = +.000017075	AA = +.0002984 B = +.000111857 CC = +.00007905 D = +.00005270 E = +.00003513	P = +.00026679 A = +.00017786 B = +.000111857 C = +.00007905 D = +.00005270 E = +.00003513
$K = +5.00$	$N = +19$	$K = +5.00$	$N = +24$	$K = +5.00$	$N = +29$		
AA = -.00186716	P = +.00844225 A = +.00560150 B = +.00373433 CC = +.00082985 C = +.00248955 D = +.00165970 E = +.00110647	BB = +.00124477	AA = +.00096047 CC = +.00042687 D = +.00017075 E = +.00011583	P = +.00066443 A = +.00057628 B = +.00038419 C = +.00025612 D = +.00017075 E = +.00009881	BB = +.00064031 CC = +.00004391 DD = +.00028458	AA = +.00009881 B = +.00019762 CC = +.00004391 D = +.00008783 E = +.00005855	P = +.00044466 A = +.00029644 B = +.00019762 C = +.00004391 D = +.00008783 E = +.00005855
$K = +5.00$	$N = +20$	$K = +5.00$	$N = +25$	$K = +5.00$	$N = +30$		
AA = +.00311194	P = +.00280075 A = +.00186716 B = +.00124477 CC = +.00136308 C = +.00082985 D = +.00055923 E = +.00036882	BB = +.00207463	AA = +.00032015 CC = +.00014229 D = +.00028458 E = +.000118972	P = +.00144071 A = +.00096047 B = +.00064031 C = +.00042687 D = +.00009486 E = +.00001451	BB = +.00021343 CC = +.00007919 DD = +.00009486	AA = +.00016469 B = +.00004587 CC = +.00007919 D = +.00002927 E = +.00001451	P = +.00014822 A = +.00009881 B = +.00004587 C = +.00004381 D = +.00002927 E = +.00001451

K = +5.50	N = +1	K = +5.50	N = +6	K = +5.50	N = +11
AA = -.3604918D	P = +.6923D770 A = -.1715976D B = +.81110606 CC = +.1727800D C = -.56153496 D = +.38875496 E = -.26913805	AA = +.16541176 BB = +.24957110 CC = +.07928019 DD = +.11981691	P = +.14116479 A = +.09774351 B = +.06768685 C = +.04684778 D = +.0324320D E = +.02245348	AA = -.01379987 BB = +.11451583 CC = +.0D661414 DD = +.05488628	P = +.06478274 A = -.04484959 B = +.03104971 CC = +.0D661414 D = +.01488181 E = +.01D30279
K = +5.50	N = +2	K = +5.50	N = +7	K = +5.50	N = +12
AA = +.610D6272	P = +.52071D1D A = +.56049161 B = +.24957111 CC = +.29239692 C = +.1727800D D = +.11981692 E = +.082E1171	AA = -.05D89595 BB = +.42235111 CC = +.02439390 DD = +.20242863	P = +.2389281D A = +.16541176 B = +.11451583 C = +.07928019 D = +.05488628 E = +.03799819	AA = +.02335363 BB = +.03523564 CC = +.01119316 DD = +.016880D8	P = +.01993315 A = +.01379987 B = +.0D95535 5 CC = +.00661414 D = +.00457902 E = +.003170D9
K = +5.50	N = +3	K = +5.50	N = +8	K = +5.50	N = +13
AA = +.18771159	P = +.8812D165 A = +.610D6268 B = +.42235109 CC = +.08996828 C = +.29239698 D = +.20242862 E = +.14014289	AA = +.08613157 BB = +.12995419 CC = +.04126199 DD = +.06228573	P = +.07351634 A = +.05089562 B = +.03523564 C = +.02439390 D = +.0188800W E = +.01119316	AA = -.00718575 BB = +.05962954 CC = +.003444D5 DD = +.02857984	P = +.033773302 A = +.02335363 B = +.01616789 CC = +.01119316 D = +.00774911 E = +.00536476
K = +5.50	N = +6	K = +5.50	N = +9	K = +5.50	N = +14
AA = +.51766579	P = +.27113898 A = +.1877116D B = +.12995419 CC = +.152254D1 C = +.08996828 D = +.06228575 E = +.04312089	AA = +.026502D1 BB = +.21992247 CC = +.0127D215	P = +.12441226 A = +.08613156 B = +.05962954 C = +.04126199 D = +.02857984 E = +.01978604	AA = +.01216047 BB = +.01834755 CC = +.0D582839 DD = +.0D 79379	P = +.01037939 A = +.0D718573 B = +.0D497473 CC = +.00344404 D = +.00238454 E = +.00165069
K = +5.50	N = +5	K = +5.50	N = +10	K = +5.50	N = +15
AA = -.09774331	P = +.45883055 A = +.31766576 B = +.21992245 CC = +.04684738 C = +.152254D0 D = +.10540662 E = +.07297381	AA = +.04484957 BB = +.06766845 CC = +.02149594	P = +.03028D69 A = +.0265D202 B = +.01834755 C = +.0127D215 D = +.00879379 E = +.00685601	AA = +.0D37416B BB = +.03104970 CC = +.0D179339 DD = +.01488181	P = +.01756512 A = +.01216047 B = +.0D841878 CC = +.0D582839 D = +.00401503 E = +.00219348

K = +5.50	M = +16	K = +5.50	M = +21	K = +5.50	M = +26
AA = +.00653207	P = +.00560463	AA = -.00052826	P = +.00247992	AA = +.00024259	P = +.00020669
A = +.00574168	B = +.00259039	B = +.00118660	A = -.00171687	B = +.00011617	A = +.00014323
BB = +.00438374	CC = +.0025319	C = +.00082287	BB = +.00036572	CC = +.00011617	BB = +.00016701
CC = +.00303690	D = +.00124158	D = +.00056968	DD = +.00017528	D = +.00004752	D = +.00000843
E = +.00085953	EE = -.00039439	E = +.00012155		E = +.00005290	
K = +5.50	M = +17	K = +5.50	M = +22	K = +5.50	M = +27
AA = -.00194833	P = +.00914633	AA = +.00089398	P = +.00076305	AA = -.00007458	P = +.00035012
A = -.00653207	A = +.00458374	A = +.00092826	A = +.00092826	A = +.00024239	
BB = +.00134888	CC = +.00042848	B = +.00036572	BB = +.00061891	BB = +.00016701	
CC = +.00093381	D = +.00210108	C = +.00025319	CC = +.00003574	C = +.00011617	
E = +.00145459	DD = +.00064648	D = +.00017528	DD = +.00029667	D = +.00008043	
E = +.00012155		E = +.000012155		E = +.00005568	
K = +5.50	M = +18	K = +5.50	M = +23	K = +5.50	M = +28
AA = +.00329717	P = +.00281425	AA = +.00027507	P = +.00129132	AA = +.00012621	P = +.00010773
A = +.00194833	A = +.00194833	A = +.00089399	A = +.00089399	A = +.00007458	
B = +.00194833	B = +.00228266	B = +.00061891	B = +.00061891	B = +.00005163	
BB = +.00228266	CC = +.00013184	CC = +.00042048	BB = +.00019043	BB = +.00008738	
CC = +.00158030	D = +.00093381	D = +.00042048	CC = +.00006047	C = +.00003574	
E = +.00064648	DD = +.00109405	E = +.00029664	DD = +.00009127	D = +.00002474	
EE = +.00044756		E = +.00020536		EE = +.00001715	
K = +5.50	M = +19	K = +5.50	M = +24	K = +5.50	M = +29
AA = -.00101451	P = +.00476258	AA = +.00046551	P = +.00039733	AA = -.00003883	P = +.00010231
A = +.00529717	A = +.00101451	A = +.00027507	A = +.00027507	A = +.00012621	
B = +.00228266	BB = +.00070235	B = +.00019043	BB = +.00032227	B = +.00006739	
CC = +.00048624	C = +.00158030	C = +.00022317	CC = +.00001561	BB = +.00002688	
E = +.00075742	DD = +.00109405	D = +.00009127	D = +.00006049	C = +.00001861	
EE = +.00033663	EE = +.00033663	E = +.00006318	E = +.00004188	D = +.00001288	
				E = +.00002899	
K = +5.50	M = +20	K = +5.50	M = +25	K = +5.50	M = +30
AA = +.00171687	P = +.00146541	AA = +.00014323	P = +.00067240	AA = +.00006572	P = +.00005609
A = +.00101451	B = +.00070235	B = +.00032227	A = +.00046551	A = +.00003885	
BB = +.00118860	CC = +.00048624	BB = +.00009916	B = +.00032227	B = +.00002688	
CC = +.00082287	D = +.00033663	CC = +.00006863	C = +.00022311	BB = +.00004550	
E = +.00025305	DD = +.00056968	D = +.00019446	D = +.00004752	C = +.00001861	
		E = +.00010693		E = +.00001288	
				E = +.00000892	

K = +6.00		N = +1		K = +6.00		N = +6		K = +6.00		N = +11	
AA =	-.34965400	P =	+1.71426970	AA =	-.14388009	P =	+1.1750206	AA =	-.00986195	P =	+.04612358
A =	-.1.22446960	A =	+.07463596	BB =	+.24989589	A =	+.06397005	A =	-.09451683	A =	-.09451683
B =	+.07463596	BB =	+.24989589	CC =	+.07340621	B =	+.05995004	BB =	+.10277147	B =	+.02465487
CC =	-.17649705	C =	-.62473967	D =	+.44624262	C =	+.04262145	CC =	-.00503160	C =	-.01761062
D =	+.44624262	DD =	+.12749709	E =	-.91074475	D =	+.05056675	DD =	+.05243443	D =	+.01257901
E =	-.91074475					E =	+.02184766			E =	-.00696301
K = +6.00		N = +2		K = +6.00		N = +7		K = +6.00		N = +12	
AA =	+.39975016	P =	+.65979596	AA =	-.04110660	P =	+.20145214	AA =	+.01690620	P =	+.01360673
A =	+.34965426	A =	-.24989590	BB =	+.42639297	A =	-.14386010	B =	-.00986195	A =	-.00986195
B =	-.24989590	BB =	+.42639297	CC =	-.02097377	B =	+.10277150	BB =	+.02936329	B =	+.00704425
CC =	+.80599497	C =	+.17649707	D =	+.12749790	C =	-.07340621	CC =	+.00662561	C =	+.00503160
D =	+.12749790	DD =	+.21056765	E =	-.09106995	D =	+.05243443	DD =	+.01496126	D =	+.00559400
E =	-.09106995					E =	-.05745517			E =	+.00236714
K = +6.00		N = +3		K = +6.00		N = +8		K = +6.00		N = +13	
AA =	-.17159717	P =	+.05965010	AA =	-.07047190	P =	+.05755205	AA =	-.00465054	P =	+.02946869
A =	-.39975012	A =	-.02936329	BB =	+.12299799	A =	+.04110661	B =	-.01690621	A =	-.01690621
B =	-.02936329	BB =	+.12299799	CC =	-.05959950	B =	+.02936329	BB =	+.05053707	B =	+.01207565
CC =	-.06742715	C =	-.30599496	D =	+.21656783	C =	-.02097377	CC =	-.00246446	C =	-.00503160
D =	+.21656783	DD =	+.06244793	E =	-.15611960	D =	+.01496127	DD =	+.02566216	D =	+.00616115
E =	-.15611960					E =	+.01070090			E =	-.00440062
K = +6.00		N = +4		K = +6.00		N = +9		K = +6.00		N = +14	
AA =	+.29375520	P =	+.23990008	AA =	-.02013482	P =	+.09664665	AA =	+.00826059	P =	+.00676246
A =	+.17159720	A =	+.01715972	BB =	+.20962514	A =	-.07047189	B =	-.00485030	A =	-.00485030
BB =	+.12259800	BB =	+.20962514	CC =	-.01027267	B =	+.05053706	BB =	+.01456202	B =	+.00545024
CC =	+.14967509	C =	+.06742714	D =	+.06244793	C =	-.03595904	CC =	+.00422479	C =	+.00246446
D =	+.06244793	DD =	+.10705364	E =	+.04460566	D =	+.02566217	DD =	+.00755776	D =	+.00176035
E =	+.04460566					E =	-.01634441			E =	+.00125797
K = +6.00		N = +5		K = +6.00		N = +10		K = +6.00		N = +15	
AA =	-.00395005	P =	+.01125725	AA =	-.09451683	P =	+.02610675	AA =	-.00256566	P =	+.01159262
A =	-.29375316	A =	-.29375316	BB =	+.03995004	A =	-.02013482	BB =	+.02465489	A =	-.00628056
BB =	+.20962515	BB =	+.03995004	CC =	+.01781063	B =	-.01436202	CC =	-.00120708	B =	+.00591470
CC =	-.04282146	C =	-.14967509	D =	+.10705365	C =	-.01027247	D =	-.00755776	C =	-.00422479
D =	+.10705365	DD =	+.05056675	E =	-.07644686	D =	-.00755776	DD =	+.01257902	D =	+.00066220
E =	-.07644686					E =	+.00524126			E =	-.00215550

K = +6.00	M = +16	K = +6.00	M = +21	K = +6.00	M = +26
AA = +.00405980	P = +.00231223 A = +.00236588 B = +.00168991 CC = +.00206928 C = +.00120708 D = +.00086220 E = +.00061585	AA = -.00027799 B = +.00289700	P = +.00138218 A = -.00097298 B = +.00069499 CC = -.00014183 C = +.00047662 D = +.00035458 E = +.00025327	AA = +.00011432 B = +.00019856 CC = +.00005893 D = +.00010131	P = +.00009336 A = +.00006689 B = +.00004763 CC = +.00005402 C = +.00002430 D = +.00004166 E = +.00001736
K = +6.00	M = +17	K = +6.00	M = +22	K = +6.00	M = +27
AA = -.00115880	P = +.00567812 A = +.00405589 B = +.00289700 CC = -.00059122 C = +.00206928 D = +.00147806 E = +.00105575	AA = +.00047656 B = +.00082771	P = +.00038919 A = +.00027799 B = +.00019856 CC = +.00024914 C = +.00014183 D = +.00010131 E = +.00007236	AA = +.00003266 B = +.000034040 CC = +.00001666 D = +.000017367	P = +.00016005 A = -.00011432 B = +.00006689 C = +.00005893 D = +.00004166 E = +.00002976
K = +6.00	M = +18	K = +6.00	M = +23	K = +6.00	M = +28
AA = +.00198651	P = +.00162292 A = +.00115980 B = +.00082771 CC = +.00101352 C = +.00059122 D = +.00042230 E = +.00030164	AA = -.00013816 B = +.00141894	P = +.00066719 A = -.000047636 B = +.00034040 CC = +.00006947 C = +.00024314 D = +.00017367 E = +.00012405	AA = +.00005599 B = +.00009725 CC = +.00002857 D = +.00004962	P = +.00004579 A = +.00003266 B = +.00002393 C = +.00001666 D = +.00001190 E = +.00000850
K = +6.00	M = +19	K = +6.00	M = +24	K = +6.00	M = +29
AA = -.00056757	P = +.00278112 A = +.00198651 B = +.00141893 CC = +.00028957 C = +.00101352 D = +.00072394 E = +.00051710	AA = +.00023941 B = +.00040541	P = +.00019082 A = +.00013616 B = +.00009725 CC = +.00011909 C = +.00006947 D = +.00004962 E = +.00003544	AA = +.00001599 B = +.000016672 CC = +.00000816 D = +.00000506	P = +.00007539 A = -.00005599 B = +.00003999 C = +.00002857 D = +.00002040 E = +.00001457
K = +6.00	M = +20	K = +6.00	M = +25	K = +6.00	M = +30
AA = +.00097298	P = +.00079460 A = +.00056757 B = +.00040541 CC = +.00049047 C = +.0028957 D = +.00020684 E = +.0014774	AA = -.00006669	P = +.00032678 A = +.00023341 B = +.00016672 CC = +.00003402	AA = +.00002742 B = +.00004763 CC = +.00001399 D = +.00000506 E = +.000006076	P = +.00002299 A = +.00001594 B = +.00001142 CC = +.00000816 C = +.00000583 D = +.00000416

$K = +6.50$	$N = +1$	$K = +6.50$	$N = +6$	$K = +6.50$	$N = +11$				
		$P = +1793333330$ AA = -.33894300 CC = -.18228674	$A = -1.27111110$ B = +.95214812 C = -.68557528 D = +.50126654 E = -.36761158	$B = +.24857284$ BB = +.06750544	$AA = +.12592AA5$ CC = +.06750544	$P = +.09875349$ A = +.07241922 B = +.05310743 C = +.03894545 D = +.02855999 E = +.02094399	$AA = -.00715165$ CC = -.00384800	$P = +.03657093$ A = -.02681869 B = +.01966704 C = -.01442250 D = +.01057650 E = -.00775609	$BB = +.00524454$ DO = +.00282040
$K = +6.50$	$N = +2$	$K = +6.50$	$N = +7$	$K = +6.50$	$N = +12$				
		$P = +.46222224$ AA = +.3875352 CC = +.31596370	$A = +.33896297$ B = +.24857285 C = +.18228675 D = +.13387695 E = +.09802976	$B = +.43085960$ BB = +.05347378 CC = +.0180D0145	$AA = -.05347378$ CC = +.0180D0145	$P = +.17117272$ A = +.12592666 B = +.09205286 C = +.06750544 D = +.04990399 E = +.03630292	$AA = +.01239619$ CC = +.00666639	$P = +.00975225$ A = +.00715165 B = +.00524454 C = +.00384800 D = +.00282040 E = +.00206829	$BB = +.00909054$ DO = +.00488664
$K = +6.50$	$N = +3$	$K = +6.50$	$N = +8$	$K = +6.50$	$N = +13$				
		$P = +.80118512$ AA = -.15667820 CC = +.08625697	$A = -.578793575$ B = +.430859555 C = +.31596366 D = +.23170669 E = +.16991823	$B = +.11469589$ BB = +.05B02123 CC = +.03120252	$AA = +.05B02123$ CC = +.03120252	$P = +.04564607$ A = +.031847378 B = +.02454744 C = +.0180D0145 D = +.01320107 E = +.00986078	$AA = +.00130565$ CC = +.00177770	$P = +.01690391$ A = +.01239620 B = +.00909054 C = +.00666639 D = +.00488664 E = +.00384800	$BB = +.00242414$ DO = +.00130365
$K = +6.50$	$N = +4$	$K = +6.50$	$N = +9$	$K = +6.50$	$N = +14$				
		$P = +.21964938$ AA = +.27197210 CC = +.14604543	$A = +.15667621$ B = +.13489589 C = +.08425698 D = +.06178845 E = +.04591153	$B = +.19915287$ BB = +.01547232 CC = +.00832067	$AA = +.01547232$ CC = +.00832067	$P = +.07911984$ A = +.05602122 B = +.04254829 C = +.03120252 D = +.02288185 E = +.01678002	$AA = +.00572980$ CC = +.00108135	$P = +.00450771$ A = +.00330565 B = +.00242414 C = +.00177770 D = +.00130365 E = +.00095801	$BB = +.00420185$ DO = +.00225986
$K = +6.50$	$N = +5$	$K = +6.50$	$N = +10$	$K = +6.50$	$N = +15$				
		$P = +.37032557$ AA = +.07241922 CC = +.03894545	$A = +.27157206$ B = +.19915286 C = +.14604543 D = +.10709998 E = +.07895398	$B = +.05310743$ BB = +.02681869 CC = +.0144224	$AA = +.02681869$ CC = +.0144224	$P = +.02109862$ A = +.01547232 B = +.01194636 C = +.00832067 D = +.00610182 E = +.00447467	$AA = +.00192794$ CC = +.00082169	$P = +.00781376$ A = +.00572979 B = +.00420185 C = +.00308135 D = +.00225966 E = +.00164708	$BB = +.00112049$ DO = +.00060257

<p>K = +5.50 N = +16</p> <p>AA = +.00264843 BB = +.00194218 CC = +.00142427 DD = +.00060257 EE = +.00044182</p>	<p>K = +6.50 N = +21</p> <p>AA = -.00015088 BB = +.00006114 CC = -.00008114</p>	<p>K = +6.50 N = +25</p> <p>AA = +.00005587 BB = +.00011065 CC = +.00003005 DD = +.00005950 EE = -.00016364</p>
<p>K = +6.50 N = +17</p> <p>AA = -.00070525 BB = +.00051791 CC = -.00037980 DD = +.00027852 EE = -.00076594</p>	<p>K = +6.50 N = +22</p> <p>AA = +.00026154 BB = +.00014065 CC = +.00008114 DD = +.00005950 EE = +.00004363</p>	<p>K = +6.50 N = +27</p> <p>AA = -.00001490 BB = +.00019179 CC = +.00000801 DD = +.00002203 EE = +.00016116</p>
<p>K = +6.50 N = +18</p> <p>AA = +.00122416 BB = +.00089772 CC = +.00065833 DD = +.00046277 EE = +.00020429</p>	<p>K = +6.50 N = +23</p> <p>AA = -.00005974 BB = +.00003750 CC = +.00001034 DD = -.00002750 EE = +.00007563</p>	<p>K = +6.50 N = +28</p> <p>AA = +.00002582 BB = +.00005114 CC = +.00001388 DD = +.0000581 EE = +.00004340</p>
<p>K = +6.50 N = +19</p> <p>AA = -.00032644 BB = +.00023939 CC = +.00017555 DD = +.00048277 EE = +.00035403</p>	<p>K = +6.50 N = +24</p> <p>AA = +.00012089 BB = +.00006501 CC = +.00003750 DD = +.00002730 EE = +.00002017</p>	<p>K = +6.50 N = +29</p> <p>AA = -.00000688 BB = +.00008765 CC = +.00000370 DD = +.00004767 EE = +.00000746</p>
<p>K = +6.50 N = +20</p> <p>AA = +.00056582 BB = +.00041494 CC = +.00030429 DD = +.00022514 EE = +.00009440</p>	<p>K = +6.50 N = +25</p> <p>AA = -.00003223 BB = +.00001793 CC = +.00004767 DD = +.00001271 EE = +.00003496</p>	<p>K = +6.50 N = +30</p> <p>AA = +.00001393 BB = +.00002364 CC = +.00000642 DD = +.0000271 EE = +.00000199</p>

K = +7.00	M = +1	K = +7.00	M = +6	K = +7.00	M = +11
AA = -0.52812500	P = +1.75000000	AA = +10990908	P = +00574025	AA = -0.00525932	P = +0.02004973
A = -1.31250000	A = +0.98437500	A = +06280518	B = +04710369	B = +0.01577797	A = -0.02103730
B = +0.98437500	BB = +0.24609575	B = +03552791	BB = +0.0243181	C = -0.00295837	B = +0.00394449
CC = -1.18457031	C = -0.73828125	C = +02649593	CC = +0.04636789	D = +0.00887511	C = -0.00118354
O = +0.559371094	OO = +0.13842775	E = +01987195	E = +0.00665633	DD = +0.00221877	O = +0.00887511
E = -0.41528321					EE = +0.00665633
K = +7.00	M = +2	K = +7.00	M = +7	K = +7.00	M = +12
AA = +0.57421082	P = +0.37500005	AA = -0.02747728	P = +14654545	AA = +0.00920381	P = +0.00701242
A = +0.32812504	A = +0.24609378	A = +010990909	B = +08243181	B = +0.00525932	A = +0.00525932
B = +0.24609378	BB = +0.43066411	B = +02060795	BB = +0.00594449	CC = +0.00517714	B = +0.00394449
CC = +0.32299808	C = +0.18457033	C = +01545596	D = +0.0224858	D = +0.00271877	C = +0.00295636
O = +0.18457033	OO = +0.24224858	E = +04636789	EE = +0.00386285	EE = +0.0016640	O = +0.00271877
E = +0.10382091					
K = +7.00	M = +3	K = +7.00	M = +8	K = +7.00	M = +13
AA = -1.14355470	P = +0.76562505	AA = +0.046806524	P = +0.05686367	AA = -0.00230095	P = +0.01227175
A = -0.57421519	A = +0.43066409	A = +02747728	B = +02060796	B = +0.00690286	A = -0.00920381
B = +0.43066409	BB = +0.10766602	B = +02060796	BB = +0.03606393	CC = +0.00129428	BB = +0.00172571
CC = -0.00074952	C = +0.32299807	C = +01545597	C = +0.01545597	D = +0.00517714	C = +0.00690286
O = +0.24224855	OO = +0.06056215	D = +0.01159197	D = +0.02028996	D = +0.00580285	O = +0.00097073
E = +0.10156642		E = +0.00669398		E = +0.00291214	
K = +7.00	M = +4	K = +7.00	M = +9	K = +7.00	M = +14
AA = +0.25122074	P = +0.19140628	AA = -0.01202130	P = +0.04411361	AA = +0.00402667	P = +0.00306793
A = +0.14355471	A = +0.10766603	A = +04800521	B = +05606590	B = +0.00230095	A = +0.00230095
B = +0.10766603	BB = +0.18041553	B = +02704793	BB = +0.00901597	CC = +0.00172571	B = +0.00172571
CC = +0.14131166	C = +0.08074552	C = +00676198	C = +0.02028594	D = +0.00226500	CC = +0.00129428
O = +0.08074552	OO = +0.06056214	D = +0.00507148	D = +0.00507148	D = +0.00690286	O = +0.00097073
E = +0.04942160	EE = +0.10598375	E = +01521446		EE = +0.00072803	DD = +0.00169875
K = +7.00	M = +5	K = +7.00	M = +10	K = +7.00	M = +15
AA = -0.08280519	P = +0.33496101	AA = +0.02103728	P = +0.01602891	AA = -0.00100866	P = +0.00536889
A = -0.29122076	A = +0.18041557	A = +01202130	B = +00901598	B = +0.00402666	A = +0.00402666
B = +0.18041557	BB = +0.04710389	B = +00901598	BB = +0.01577796	CC = +0.00502000	B = +0.00502000
CC = -0.03532792	C = +0.14131166	CC = +01185347	C = +0.00876198	CC = +0.0056625	CC = +0.00226500
O = +0.10598376	OO = +0.02649595	D = +0.00507148	D = +0.00887510	D = +0.00169875	O = +0.00169875
E = +0.07948781		E = +0.00308361		E = +0.00127406	DD = +0.00062468

$K = +7.00$	$N = +16$	$K = +7.00$	$N = +21$	$K = +7.00$	$N = +26$
AA = +.00176166	P = +.00134222	AA = -.00006429	P = +.00044959	AA = +.00002823	P = +.00002151
CC = +.00099093	A = +.00100666	BB = +.00132125	A = -.00033719	BB = +.00006322	A = +.00016139
	B = +.00075500	CC = -.00004741	B = +.00025289	AA = +.00001988	B = +.00001210
	C = +.000356625	DD = +.00074320	C = -.00018967	CC = +.00001588	C = +.00003097
	D = +.00042468	E = +.00031851	D = +.00014225	DD = +.00003556	D = +.00000680
			E = -.0001066		E = +.00000510
$K = +7.00$	$N = +17$	$K = +7.00$	$N = +22$	$K = +7.00$	$N = +27$
AA = -.00044041	P = +.00134889	AA = +.00014752	P = +.00011239	AA = -.00000705	P = +.00003764
CC = -.00024773	A = +.00176166	BB = +.00033031	A = +.00008429	BB = +.00011064	A = -.00002823
	B = +.00132125	CC = +.00008298	B = +.00006322	AA = +.00000705	B = +.00002117
	C = +.00099093	DD = +.00018580	C = +.0004741	CC = +.00000397	C = +.00001588
	D = +.00074320	E = +.00055740	D = +.00003556	DD = +.00006223	D = +.00001191
			E = +.0002687		E = +.00000893
$K = +7.00$	$N = +18$	$K = +7.00$	$N = +23$	$K = +7.00$	$N = +28$
AA = +.00077073	P = +.00058722	AA = -.00003688	P = +.00019669	AA = +.00001235	P = +.00000941
CC = +.00043343	A = +.00044041	BB = +.00057804	A = +.00014752	BB = +.00002766	A = +.00000705
	B = +.00033031	CC = +.00002074	B = +.00013064	AA = +.00001235	B = +.00000529
	C = +.00024773	DD = +.00012515	C = +.00000298	CC = +.00000694	C = +.00000327
	D = +.00018580	E = +.00013935	D = +.00006223	DD = +.00001555	D = +.00000297
			E = +.00004667		E = +.00000223
$K = +7.00$	$N = +19$	$K = +7.00$	$N = +24$	$K = +7.00$	$N = +29$
AA = -.00019268	P = +.00102763	AA = +.00006654	P = +.00004917	AA = -.00000308	P = +.00001647
CC = +.00010838	A = +.00077072	BB = +.00014451	A = +.00003688	BB = +.00004840	A = +.00001235
	B = +.00057804	CC = +.00003630	B = +.00002766	AA = +.00000308	B = +.00000926
	C = +.00043343	DD = +.00008128	C = +.000002074	CC = +.00000173	C = +.00000694
	D = +.00032515	E = +.00024386	D = +.00001555	DD = +.00002722	D = +.00000521
			E = +.00001166		E = +.00000390
$K = +7.00$	$N = +20$	$K = +7.00$	$N = +25$	$K = +7.00$	$N = +30$
AA = +.00033719	P = +.00025690	AA = -.00001613	P = +.00008605	AA = +.00000540	P = +.00000411
CC = +.00018967	A = +.00019268	BB = +.00025289	A = +.00006454	BB = +.00000480	A = +.00000368
	B = +.00014451	CC = +.00000907	B = +.00004840	AA = +.00000540	B = +.00000231
	C = +.00010838	DD = +.00008128	C = +.00003630	CC = +.00000304	C = +.00000173
	D = +.00008128	E = +.00006096	D = +.00002722	BB = +.00000680	D = +.00000130
			E = +.00002042		E = +.00000097

K = +7.50		N = +1		K = +7.50		N = +6		K = +7.50		N = +11	
AA =	-+31752490	P =	+176470560	AA =	-+07158963	P =	+02178157	AA =	-+00591917	P =	+02178157
BB =	+103195600	A =	-134948090	BB =	+09660064	A =	+05474501	BB =	+07387735	A =	-01663649
CC =	-+18568067	B =	-+078914280	CC =	+09649444	B =	+04186383	CC =	-+00229163	B =	-01273731
DD =	+060346213	BB =	+14201320	DD =	+14199109	CC =	+03201351	DD =	+04320163	CC =	-+03974030
EE =	-+46147104	E =	+02468092	EE =	+01872070	E =	+01872070	EE =	+00744846	DD =	+00175268
K = +7.50		N = +2		K = +7.50		N = +7		K = +7.50		N = +12	
AA =	-+56033800	P =	+041522489	AA =	-+02273149	P =	+12653664	AA =	-+00691619	P =	+00512507
BB =	+31732491	A =	-+02273149	BB =	+042649383	A =	-+09660064	BB =	+01790290	A =	-+00391917
CC =	-+32767174	B =	+02261317	CC =	-+01329281	B =	-+07387735	CC =	+00404441	B =	+00299701
DD =	+01993109	BB =	+042649383	DD =	+04320163	CC =	-+05641944	DD =	+01016509	CC =	+00229163
EE =	+10058142	E =	+025057251	EE =	+03030564	E =	+04320163	EE =	+00134020	DD =	+00309278
K = +7.50		N = +3		K = +7.50		N = +8		K = +7.50		N = +13	
AA =	-+13184425	P =	+073274975	AA =	-+04011439	P =	+02972579	AA =	-+00162733	P =	+00904425
BB =	+56093804	A =	-+02273149	BB =	+010082207	A =	-+02273149	BB =	+03067571	A =	-+00616119
CC =	-+07706921	B =	+022649379	CC =	+02145790	B =	-+01790290	CC =	-+00095162	B =	+00528065
DD =	-+2057249	BB =	+010082207	DD =	+005895823	CC =	-+01529281	DD =	+01793819	CC =	-+00404441
EE =	+19161476	E =	+019161476	EE =	+00777330	E =	+01016509	EE =	+00309278	DD =	+00072771
K = +7.50		N = +4		K = +7.50		N = +9		K = +7.50		N = +14	
AA =	-+23266632	P =	+017241171	AA =	-+00945868	P =	+05245728	AA =	-+00287177	P =	+00212805
BB =	+13386425	A =	-+013386425	BB =	+017792150	A =	-+04011439	BB =	+00721781	A =	-+00142733
CC =	-+13605746	B =	+010082207	CC =	-+00551950	B =	-+03067571	CC =	-+00167934	B =	+00124443
DD =	-+05895823	BB =	+04116509	DD =	+010404396	CC =	-+02945789	DD =	+00422079	CC =	-+00075362
EE =	+04505970	E =	+04505970	EE =	+01371759	E =	+01371759	EE =	+00072771	DD =	+00128470
K = +7.50		N = +5		K = +7.50		N = +10		K = +7.50		N = +15	
AA =	-+05474501	P =	+030425955	AA =	-+01665549	P =	+01234289	AA =	-+00867571	P =	+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +6		K = +7.50		N = +11		K = +7.50		N = +16	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +7		K = +7.50		N = +12		K = +7.50		N = +17	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +8		K = +7.50		N = +13		K = +7.50		N = +18	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +9		K = +7.50		N = +14		K = +7.50		N = +19	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +10		K = +7.50		N = +15		K = +7.50		N = +20	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +11		K = +7.50		N = +16		K = +7.50		N = +21	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +12		K = +7.50		N = +17		K = +7.50		N = +22	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +13		K = +7.50		N = +18		K = +7.50		N = +23	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +14		K = +7.50		N = +19		K = +7.50		N = +24	
AA =	-+05474501	P =	-+05474501	AA =	-+01665549	P =	-+00945868	AA =	-+00867571	P =	-+00957539
BB =	-+23266631	A =	-+022649379	BB =	+04116509	A =	-+00945868	BB =	-+00287177	A =	-+00267177
CC =	-+03201952	B =	+037792150	CC =	-+00974030	B =	-+00721781	CC =	-+01273731	B =	+00219606
DD =	-+13605746	BB =	+04116509	DD =	+02448093	CC =	-+00551950	DD =	-+00059513	CC =	-+0167934
EE =	-+07956301	E =	-+07956301	EE =	+00422079	E =	-+00422079	EE =	-+00744846	DD =	-+00128470
K = +7.50		N = +15		K = +7.50		N = +20		K = +7.50		N = +25	
AA =	-+05474501	P =	-+05474501	AA =							

<p>K = +7.50 N = +16</p> <table border="0"> <tbody> <tr> <td>P = +.00088362</td> <td>A = +.00067571</td> <td>B = +.00051872</td> <td>BB = +.00091186</td> <td>AA = -.00004837</td> <td>P = +.00026884</td> <td>A = -.00020558</td> <td>B = +.00015721</td> <td>BB = +.00003699</td> <td>AA = +.00001471</td> <td>P = +.00001090</td> </tr> <tr> <td>CC = -.00069730</td> <td>D = +.00030216</td> <td>DD = +.00053323</td> <td>E = +.00023106</td> <td>CC = -.00002828</td> <td>C = -.00012022</td> <td>O = +.00009193</td> <td>DD = +.00002163</td> <td>E = -.00007030</td> <td>CC = +.00000860</td> <td>A = +.00000834</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C = +.00000466</td> <td></td> <td></td> <td></td> <td>B = +.00000637</td> <td>BB = +.00001125</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000372</td> <td></td> <td></td> <td></td> <td>D = +.00000658</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000285</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	P = +.00088362	A = +.00067571	B = +.00051872	BB = +.00091186	AA = -.00004837	P = +.00026884	A = -.00020558	B = +.00015721	BB = +.00003699	AA = +.00001471	P = +.00001090	CC = -.00069730	D = +.00030216	DD = +.00053323	E = +.00023106	CC = -.00002828	C = -.00012022	O = +.00009193	DD = +.00002163	E = -.00007030	CC = +.00000860	A = +.00000834						C = +.00000466				B = +.00000637	BB = +.00001125						D = +.00000372				D = +.00000658							E = +.00000285						<p>K = +7.50 N = +21</p> <table border="0"> <tbody> <tr> <td>P = +.00155933</td> <td>A = -.00119243</td> <td>B = +.00091186</td> <td>BB = +.00021455</td> <td>AA = +.000008536</td> <td>P = +.00006325</td> <td>A = +.00004837</td> <td>B = +.00003699</td> <td>BB = +.00006527</td> <td>AA = -.00000346</td> <td>P = +.00001924</td> </tr> <tr> <td>CC = -.00016407</td> <td>C = +.0006730</td> <td>D = +.00053323</td> <td>DD = +.00012546</td> <td>CC = +.00004991</td> <td>C = +.00002822</td> <td>O = +.00002163</td> <td>DD = +.00003817</td> <td>E = +.00001654</td> <td>CC = +.00000202</td> <td>A = -.00001471</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000264</td> <td></td> <td></td> <td></td> <td>B = +.00001125</td> <td>BB = +.00000264</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000154</td> <td></td> <td></td> <td></td> <td>D = +.00000660</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000503</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00155933	A = -.00119243	B = +.00091186	BB = +.00021455	AA = +.000008536	P = +.00006325	A = +.00004837	B = +.00003699	BB = +.00006527	AA = -.00000346	P = +.00001924	CC = -.00016407	C = +.0006730	D = +.00053323	DD = +.00012546	CC = +.00004991	C = +.00002822	O = +.00002163	DD = +.00003817	E = +.00001654	CC = +.00000202	A = -.00001471						D = +.00000264				B = +.00001125	BB = +.00000264						E = +.00000154				D = +.00000660							E = +.00000503				D = +.00000273		<p>K = +7.50 N = +26</p> <table border="0"> <tbody> <tr> <td>P = +.00036690</td> <td>A = +.00028057</td> <td>B = +.00021455</td> <td>BB = +.00057862</td> <td>AA = -.00002008</td> <td>P = +.00011163</td> <td>A = -.00008536</td> <td>B = +.00006527</td> <td>BB = +.00001595</td> <td>AA = +.00000611</td> <td>P = +.00000452</td> </tr> <tr> <td>CC = +.00028953</td> <td>C = +.00016407</td> <td>D = +.00012546</td> <td>DD = +.00022141</td> <td>CC = -.00001174</td> <td>C = -.00004991</td> <td>O = +.00003817</td> <td>DD = +.00000898</td> <td>E = -.0000291</td> <td>CC = +.00000357</td> <td>A = +.00000346</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000264</td> <td></td> <td></td> <td></td> <td>B = +.00000202</td> <td>BB = +.00000467</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000154</td> <td></td> <td></td> <td></td> <td>C = +.00000154</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000118</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = -.00002008	P = +.00011163	A = -.00008536	B = +.00006527	BB = +.00001595	AA = +.00000611	P = +.00000452	CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = -.0000291	CC = +.00000357	A = +.00000346						D = +.00000264				B = +.00000202	BB = +.00000467						E = +.00000154				C = +.00000154							E = +.00000118				D = +.00000273	
P = +.00088362	A = +.00067571	B = +.00051872	BB = +.00091186	AA = -.00004837	P = +.00026884	A = -.00020558	B = +.00015721	BB = +.00003699	AA = +.00001471	P = +.00001090																																																																																																																																																													
CC = -.00069730	D = +.00030216	DD = +.00053323	E = +.00023106	CC = -.00002828	C = -.00012022	O = +.00009193	DD = +.00002163	E = -.00007030	CC = +.00000860	A = +.00000834																																																																																																																																																													
					C = +.00000466				B = +.00000637	BB = +.00001125																																																																																																																																																													
					D = +.00000372				D = +.00000658																																																																																																																																																														
					E = +.00000285																																																																																																																																																																		
P = +.00155933	A = -.00119243	B = +.00091186	BB = +.00021455	AA = +.000008536	P = +.00006325	A = +.00004837	B = +.00003699	BB = +.00006527	AA = -.00000346	P = +.00001924																																																																																																																																																													
CC = -.00016407	C = +.0006730	D = +.00053323	DD = +.00012546	CC = +.00004991	C = +.00002822	O = +.00002163	DD = +.00003817	E = +.00001654	CC = +.00000202	A = -.00001471																																																																																																																																																													
					D = +.00000264				B = +.00001125	BB = +.00000264																																																																																																																																																													
					E = +.00000154				D = +.00000660																																																																																																																																																														
					E = +.00000503				D = +.00000273																																																																																																																																																														
P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = -.00002008	P = +.00011163	A = -.00008536	B = +.00006527	BB = +.00001595	AA = +.00000611	P = +.00000452																																																																																																																																																													
CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = -.0000291	CC = +.00000357	A = +.00000346																																																																																																																																																													
					D = +.00000264				B = +.00000202	BB = +.00000467																																																																																																																																																													
					E = +.00000154				C = +.00000154																																																																																																																																																														
					E = +.00000118				D = +.00000273																																																																																																																																																														
<p>K = +7.50 N = +17</p> <table border="0"> <tbody> <tr> <td>P = +.00119243</td> <td>A = -.00020805</td> <td>B = +.00091186</td> <td>BB = +.00021455</td> <td>AA = +.000008536</td> <td>P = +.00006325</td> <td>A = +.00004837</td> <td>B = +.00003699</td> <td>BB = +.00006527</td> <td>AA = -.00000346</td> <td>P = +.00001924</td> </tr> <tr> <td>CC = -.00016407</td> <td>C = +.0006730</td> <td>D = +.00053323</td> <td>DD = +.00012546</td> <td>CC = +.00004991</td> <td>C = +.00002822</td> <td>O = +.00002163</td> <td>DD = +.00003817</td> <td>E = +.00001654</td> <td>CC = +.00000202</td> <td>A = -.00001471</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000264</td> <td></td> <td></td> <td></td> <td>B = +.00001125</td> <td>BB = +.00000264</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000154</td> <td></td> <td></td> <td></td> <td>D = +.00000660</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000503</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00119243	A = -.00020805	B = +.00091186	BB = +.00021455	AA = +.000008536	P = +.00006325	A = +.00004837	B = +.00003699	BB = +.00006527	AA = -.00000346	P = +.00001924	CC = -.00016407	C = +.0006730	D = +.00053323	DD = +.00012546	CC = +.00004991	C = +.00002822	O = +.00002163	DD = +.00003817	E = +.00001654	CC = +.00000202	A = -.00001471						D = +.00000264				B = +.00001125	BB = +.00000264						E = +.00000154				D = +.00000660							E = +.00000503				D = +.00000273		<p>K = +7.50 N = +22</p> <table border="0"> <tbody> <tr> <td>P = +.00036690</td> <td>A = +.00028057</td> <td>B = +.00021455</td> <td>BB = +.00057862</td> <td>AA = +.000008536</td> <td>P = +.00006325</td> <td>A = +.00004837</td> <td>B = +.00003699</td> <td>BB = +.00006527</td> <td>AA = -.00000346</td> <td>P = +.00001924</td> </tr> <tr> <td>CC = +.00028953</td> <td>C = +.00016407</td> <td>D = +.00012546</td> <td>DD = +.00022141</td> <td>CC = -.00001174</td> <td>C = -.00004991</td> <td>O = +.00003817</td> <td>DD = +.00000898</td> <td>E = +.00001654</td> <td>CC = +.00000202</td> <td>A = -.00001471</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000264</td> <td></td> <td></td> <td></td> <td>B = +.00001125</td> <td>BB = +.00000264</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000154</td> <td></td> <td></td> <td></td> <td>D = +.00000660</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000503</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = +.000008536	P = +.00006325	A = +.00004837	B = +.00003699	BB = +.00006527	AA = -.00000346	P = +.00001924	CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = +.00001654	CC = +.00000202	A = -.00001471						D = +.00000264				B = +.00001125	BB = +.00000264						E = +.00000154				D = +.00000660							E = +.00000503				D = +.00000273		<p>K = +7.50 N = +27</p> <table border="0"> <tbody> <tr> <td>P = +.00036690</td> <td>A = +.00028057</td> <td>B = +.00021455</td> <td>BB = +.00057862</td> <td>AA = +.000008536</td> <td>P = +.00006325</td> <td>A = +.00004837</td> <td>B = +.00003699</td> <td>BB = +.00006527</td> <td>AA = -.00000346</td> <td>P = +.00001924</td> </tr> <tr> <td>CC = +.00028953</td> <td>C = +.00016407</td> <td>D = +.00012546</td> <td>DD = +.00022141</td> <td>CC = -.00001174</td> <td>C = -.00004991</td> <td>O = +.00003817</td> <td>DD = +.00000898</td> <td>E = +.00001654</td> <td>CC = +.00000202</td> <td>A = -.00001471</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000264</td> <td></td> <td></td> <td></td> <td>B = +.00001125</td> <td>BB = +.00000264</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000154</td> <td></td> <td></td> <td></td> <td>D = +.00000660</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000503</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = +.000008536	P = +.00006325	A = +.00004837	B = +.00003699	BB = +.00006527	AA = -.00000346	P = +.00001924	CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = +.00001654	CC = +.00000202	A = -.00001471						D = +.00000264				B = +.00001125	BB = +.00000264						E = +.00000154				D = +.00000660							E = +.00000503				D = +.00000273	
P = +.00119243	A = -.00020805	B = +.00091186	BB = +.00021455	AA = +.000008536	P = +.00006325	A = +.00004837	B = +.00003699	BB = +.00006527	AA = -.00000346	P = +.00001924																																																																																																																																																													
CC = -.00016407	C = +.0006730	D = +.00053323	DD = +.00012546	CC = +.00004991	C = +.00002822	O = +.00002163	DD = +.00003817	E = +.00001654	CC = +.00000202	A = -.00001471																																																																																																																																																													
					D = +.00000264				B = +.00001125	BB = +.00000264																																																																																																																																																													
					E = +.00000154				D = +.00000660																																																																																																																																																														
					E = +.00000503				D = +.00000273																																																																																																																																																														
P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = +.000008536	P = +.00006325	A = +.00004837	B = +.00003699	BB = +.00006527	AA = -.00000346	P = +.00001924																																																																																																																																																													
CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = +.00001654	CC = +.00000202	A = -.00001471																																																																																																																																																													
					D = +.00000264				B = +.00001125	BB = +.00000264																																																																																																																																																													
					E = +.00000154				D = +.00000660																																																																																																																																																														
					E = +.00000503				D = +.00000273																																																																																																																																																														
P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = +.000008536	P = +.00006325	A = +.00004837	B = +.00003699	BB = +.00006527	AA = -.00000346	P = +.00001924																																																																																																																																																													
CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = +.00001654	CC = +.00000202	A = -.00001471																																																																																																																																																													
					D = +.00000264				B = +.00001125	BB = +.00000264																																																																																																																																																													
					E = +.00000154				D = +.00000660																																																																																																																																																														
					E = +.00000503				D = +.00000273																																																																																																																																																														
<p>K = +7.50 N = +18</p> <table border="0"> <tbody> <tr> <td>P = +.00036690</td> <td>A = +.00028057</td> <td>B = +.00021455</td> <td>BB = +.00057862</td> <td>AA = -.00002008</td> <td>P = +.00011163</td> <td>A = -.00008536</td> <td>B = +.00006527</td> <td>BB = +.00001595</td> <td>AA = +.00000611</td> <td>P = +.00000452</td> </tr> <tr> <td>CC = +.00028953</td> <td>C = +.00016407</td> <td>D = +.00012546</td> <td>DD = +.00022141</td> <td>CC = -.00001174</td> <td>C = -.00004991</td> <td>O = +.00003817</td> <td>DD = +.00000898</td> <td>E = +.00001654</td> <td>CC = +.00000202</td> <td>A = +.00000346</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000264</td> <td></td> <td></td> <td></td> <td>B = +.00000264</td> <td>BB = +.00000467</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000154</td> <td></td> <td></td> <td></td> <td>C = +.00000202</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000118</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = -.00002008	P = +.00011163	A = -.00008536	B = +.00006527	BB = +.00001595	AA = +.00000611	P = +.00000452	CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = +.00001654	CC = +.00000202	A = +.00000346						D = +.00000264				B = +.00000264	BB = +.00000467						E = +.00000154				C = +.00000202							E = +.00000118				D = +.00000273		<p>K = +7.50 N = +23</p> <table border="0"> <tbody> <tr> <td>P = +.00036690</td> <td>A = +.00028057</td> <td>B = +.00021455</td> <td>BB = +.00057862</td> <td>AA = -.00002008</td> <td>P = +.00011163</td> <td>A = -.00008536</td> <td>B = +.00006527</td> <td>BB = +.00001595</td> <td>AA = +.00000611</td> <td>P = +.00000452</td> </tr> <tr> <td>CC = +.00028953</td> <td>C = +.00016407</td> <td>D = +.00012546</td> <td>DD = +.00022141</td> <td>CC = -.00001174</td> <td>C = -.00004991</td> <td>O = +.00003817</td> <td>DD = +.00000898</td> <td>E = +.00001654</td> <td>CC = +.00000202</td> <td>A = +.00000346</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000264</td> <td></td> <td></td> <td></td> <td>B = +.00000264</td> <td>BB = +.00000467</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000154</td> <td></td> <td></td> <td></td> <td>C = +.00000202</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000118</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = -.00002008	P = +.00011163	A = -.00008536	B = +.00006527	BB = +.00001595	AA = +.00000611	P = +.00000452	CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = +.00001654	CC = +.00000202	A = +.00000346						D = +.00000264				B = +.00000264	BB = +.00000467						E = +.00000154				C = +.00000202							E = +.00000118				D = +.00000273																																																									
P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = -.00002008	P = +.00011163	A = -.00008536	B = +.00006527	BB = +.00001595	AA = +.00000611	P = +.00000452																																																																																																																																																													
CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = +.00001654	CC = +.00000202	A = +.00000346																																																																																																																																																													
					D = +.00000264				B = +.00000264	BB = +.00000467																																																																																																																																																													
					E = +.00000154				C = +.00000202																																																																																																																																																														
					E = +.00000118				D = +.00000273																																																																																																																																																														
P = +.00036690	A = +.00028057	B = +.00021455	BB = +.00057862	AA = -.00002008	P = +.00011163	A = -.00008536	B = +.00006527	BB = +.00001595	AA = +.00000611	P = +.00000452																																																																																																																																																													
CC = +.00028953	C = +.00016407	D = +.00012546	DD = +.00022141	CC = -.00001174	C = -.00004991	O = +.00003817	DD = +.00000898	E = +.00001654	CC = +.00000202	A = +.00000346																																																																																																																																																													
					D = +.00000264				B = +.00000264	BB = +.00000467																																																																																																																																																													
					E = +.00000154				C = +.00000202																																																																																																																																																														
					E = +.00000118				D = +.00000273																																																																																																																																																														
<p>K = +7.50 N = +19</p> <table border="0"> <tbody> <tr> <td>P = +.00064747</td> <td>A = +.00028057</td> <td>B = +.00021455</td> <td>BB = +.00057862</td> <td>AA = +.000008544</td> <td>P = +.00002626</td> <td>A = +.00002008</td> <td>B = +.00001535</td> <td>BB = +.00002710</td> <td>AA = +.00000143</td> <td>P = +.00000799</td> </tr> <tr> <td>CC = -.0006812</td> <td>C = +.00028053</td> <td>D = +.00022141</td> <td>DD = +.0005209</td> <td>CC = +.00002072</td> <td>C = +.00001174</td> <td>O = +.00000888</td> <td>DD = +.00001585</td> <td>E = +.00000686</td> <td>CC = +.00000084</td> <td>A = +.00000611</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> <td></td> <td></td> <td>B = +.00000109</td> <td>BB = +.00000109</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000206</td> <td></td> <td></td> <td></td> <td>C = +.00000397</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000206</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00064747	A = +.00028057	B = +.00021455	BB = +.00057862	AA = +.000008544	P = +.00002626	A = +.00002008	B = +.00001535	BB = +.00002710	AA = +.00000143	P = +.00000799	CC = -.0006812	C = +.00028053	D = +.00022141	DD = +.0005209	CC = +.00002072	C = +.00001174	O = +.00000888	DD = +.00001585	E = +.00000686	CC = +.00000084	A = +.00000611						D = +.00000273				B = +.00000109	BB = +.00000109						E = +.00000206				C = +.00000397							E = +.00000206				D = +.00000273		<p>K = +7.50 N = +24</p> <table border="0"> <tbody> <tr> <td>P = +.00064747</td> <td>A = +.00028057</td> <td>B = +.00021455</td> <td>BB = +.00057862</td> <td>AA = +.000008544</td> <td>P = +.00002626</td> <td>A = +.00002008</td> <td>B = +.00001535</td> <td>BB = +.00002710</td> <td>AA = +.00000143</td> <td>P = +.00000799</td> </tr> <tr> <td>CC = -.0006812</td> <td>C = +.00028053</td> <td>D = +.00022141</td> <td>DD = +.0005209</td> <td>CC = +.00002072</td> <td>C = +.00001174</td> <td>O = +.00000888</td> <td>DD = +.00001585</td> <td>E = +.00000686</td> <td>CC = +.00000084</td> <td>A = +.00000611</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> <td></td> <td></td> <td>B = +.00000109</td> <td>BB = +.00000109</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000206</td> <td></td> <td></td> <td></td> <td>C = +.00000397</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000206</td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> </tr> </tbody> </table>	P = +.00064747	A = +.00028057	B = +.00021455	BB = +.00057862	AA = +.000008544	P = +.00002626	A = +.00002008	B = +.00001535	BB = +.00002710	AA = +.00000143	P = +.00000799	CC = -.0006812	C = +.00028053	D = +.00022141	DD = +.0005209	CC = +.00002072	C = +.00001174	O = +.00000888	DD = +.00001585	E = +.00000686	CC = +.00000084	A = +.00000611						D = +.00000273				B = +.00000109	BB = +.00000109						E = +.00000206				C = +.00000397							E = +.00000206				D = +.00000273																																																									
P = +.00064747	A = +.00028057	B = +.00021455	BB = +.00057862	AA = +.000008544	P = +.00002626	A = +.00002008	B = +.00001535	BB = +.00002710	AA = +.00000143	P = +.00000799																																																																																																																																																													
CC = -.0006812	C = +.00028053	D = +.00022141	DD = +.0005209	CC = +.00002072	C = +.00001174	O = +.00000888	DD = +.00001585	E = +.00000686	CC = +.00000084	A = +.00000611																																																																																																																																																													
					D = +.00000273				B = +.00000109	BB = +.00000109																																																																																																																																																													
					E = +.00000206				C = +.00000397																																																																																																																																																														
					E = +.00000206				D = +.00000273																																																																																																																																																														
P = +.00064747	A = +.00028057	B = +.00021455	BB = +.00057862	AA = +.000008544	P = +.00002626	A = +.00002008	B = +.00001535	BB = +.00002710	AA = +.00000143	P = +.00000799																																																																																																																																																													
CC = -.0006812	C = +.00028053	D = +.00022141	DD = +.0005209	CC = +.00002072	C = +.00001174	O = +.00000888	DD = +.00001585	E = +.00000686	CC = +.00000084	A = +.00000611																																																																																																																																																													
					D = +.00000273				B = +.00000109	BB = +.00000109																																																																																																																																																													
					E = +.00000206				C = +.00000397																																																																																																																																																														
					E = +.00000206				D = +.00000273																																																																																																																																																														
<p>K = +7.50 N = +20</p> <table border="0"> <tbody> <tr> <td>P = +.00015234</td> <td>A = +.00011650</td> <td>B = +.00008908</td> <td>BB = +.00015721</td> <td>AA = +.000008544</td> <td>P = +.00004635</td> <td>A = +.00003546</td> <td>B = +.00002710</td> <td>BB = +.00000637</td> <td>AA = +.00000293</td> <td>P = +.00000166</td> </tr> <tr> <td>CC = +.00012022</td> <td>C = +.000066812</td> <td>D = +.00005209</td> <td>DD = +.00009193</td> <td>CC = +.00000487</td> <td>C = +.00002072</td> <td>O = +.00001585</td> <td>DD = +.00000372</td> <td>E = +.00001212</td> <td>CC = +.00000143</td> <td>A = +.00000143</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> <td></td> <td></td> <td>B = +.00000109</td> <td>BB = +.00000109</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000493</td> <td></td> <td></td> <td></td> <td>C = +.00000084</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000493</td> <td></td> <td></td> <td></td> <td>D = +.00000664</td> <td></td> </tr> </tbody> </table>	P = +.00015234	A = +.00011650	B = +.00008908	BB = +.00015721	AA = +.000008544	P = +.00004635	A = +.00003546	B = +.00002710	BB = +.00000637	AA = +.00000293	P = +.00000166	CC = +.00012022	C = +.000066812	D = +.00005209	DD = +.00009193	CC = +.00000487	C = +.00002072	O = +.00001585	DD = +.00000372	E = +.00001212	CC = +.00000143	A = +.00000143						D = +.00000273				B = +.00000109	BB = +.00000109						E = +.00000493				C = +.00000084							E = +.00000493				D = +.00000664		<p>K = +7.50 N = +25</p> <table border="0"> <tbody> <tr> <td>P = +.00015234</td> <td>A = +.00011650</td> <td>B = +.00008908</td> <td>BB = +.00015721</td> <td>AA = +.000008544</td> <td>P = +.00004635</td> <td>A = +.00003546</td> <td>B = +.00002710</td> <td>BB = +.00000637</td> <td>AA = +.00000293</td> <td>P = +.00000166</td> </tr> <tr> <td>CC = +.00012022</td> <td>C = +.000066812</td> <td>D = +.00005209</td> <td>DD = +.00009193</td> <td>CC = +.00000487</td> <td>C = +.00002072</td> <td>O = +.00001585</td> <td>DD = +.00000372</td> <td>E = +.00001212</td> <td>CC = +.00000143</td> <td>A = +.00000143</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> <td></td> <td></td> <td>B = +.00000109</td> <td>BB = +.00000109</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000493</td> <td></td> <td></td> <td></td> <td>C = +.00000084</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000493</td> <td></td> <td></td> <td></td> <td>D = +.00000664</td> <td></td> </tr> </tbody> </table>	P = +.00015234	A = +.00011650	B = +.00008908	BB = +.00015721	AA = +.000008544	P = +.00004635	A = +.00003546	B = +.00002710	BB = +.00000637	AA = +.00000293	P = +.00000166	CC = +.00012022	C = +.000066812	D = +.00005209	DD = +.00009193	CC = +.00000487	C = +.00002072	O = +.00001585	DD = +.00000372	E = +.00001212	CC = +.00000143	A = +.00000143						D = +.00000273				B = +.00000109	BB = +.00000109						E = +.00000493				C = +.00000084							E = +.00000493				D = +.00000664																																																									
P = +.00015234	A = +.00011650	B = +.00008908	BB = +.00015721	AA = +.000008544	P = +.00004635	A = +.00003546	B = +.00002710	BB = +.00000637	AA = +.00000293	P = +.00000166																																																																																																																																																													
CC = +.00012022	C = +.000066812	D = +.00005209	DD = +.00009193	CC = +.00000487	C = +.00002072	O = +.00001585	DD = +.00000372	E = +.00001212	CC = +.00000143	A = +.00000143																																																																																																																																																													
					D = +.00000273				B = +.00000109	BB = +.00000109																																																																																																																																																													
					E = +.00000493				C = +.00000084																																																																																																																																																														
					E = +.00000493				D = +.00000664																																																																																																																																																														
P = +.00015234	A = +.00011650	B = +.00008908	BB = +.00015721	AA = +.000008544	P = +.00004635	A = +.00003546	B = +.00002710	BB = +.00000637	AA = +.00000293	P = +.00000166																																																																																																																																																													
CC = +.00012022	C = +.000066812	D = +.00005209	DD = +.00009193	CC = +.00000487	C = +.00002072	O = +.00001585	DD = +.00000372	E = +.00001212	CC = +.00000143	A = +.00000143																																																																																																																																																													
					D = +.00000273				B = +.00000109	BB = +.00000109																																																																																																																																																													
					E = +.00000493				C = +.00000084																																																																																																																																																														
					E = +.00000493				D = +.00000664																																																																																																																																																														
<p>K = +7.50 N = +30</p> <table border="0"> <tbody> <tr> <td>P = +.00004635</td> <td>A = +.00003546</td> <td>B = +.00002710</td> <td>BB = +.00000637</td> <td>AA = +.00000293</td> <td>P = +.00000166</td> <td>A = +.00000293</td> <td>B = +.00000109</td> <td>BB = +.00000109</td> <td>AA = +.00000084</td> <td>P = +.00000084</td> </tr> <tr> <td>CC = +.00000143</td> <td>C = +.00001585</td> <td>D = +.00000372</td> <td>DD = +.00001212</td> <td>CC = +.00000143</td> <td>C = +.00000109</td> <td>O = +.00000084</td> <td>DD = +.00000084</td> <td>E = +.00000084</td> <td>CC = +.00000084</td> <td>A = +.00000084</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>D = +.00000273</td> <td></td> <td></td> <td></td> <td>B = +.00000084</td> <td>BB = +.00000084</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000084</td> <td></td> <td></td> <td></td> <td>C = +.00000084</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E = +.00000084</td> <td></td> <td></td> <td></td> <td>D = +.00000084</td> <td></td> </tr> </tbody> </table>	P = +.00004635	A = +.00003546	B = +.00002710	BB = +.00000637	AA = +.00000293	P = +.00000166	A = +.00000293	B = +.00000109	BB = +.00000109	AA = +.00000084	P = +.00000084	CC = +.00000143	C = +.00001585	D = +.00000372	DD = +.00001212	CC = +.00000143	C = +.00000109	O = +.00000084	DD = +.00000084	E = +.00000084	CC = +.00000084	A = +.00000084						D = +.00000273				B = +.00000084	BB = +.00000084						E = +.00000084				C = +.00000084							E = +.00000084				D = +.00000084																																																																																																																	
P = +.00004635	A = +.00003546	B = +.00002710	BB = +.00000637	AA = +.00000293	P = +.00000166	A = +.00000293	B = +.00000109	BB = +.00000109	AA = +.00000084	P = +.00000084																																																																																																																																																													
CC = +.00000143	C = +.00001585	D = +.00000372	DD = +.00001212	CC = +.00000143	C = +.00000109	O = +.00000084	DD = +.00000084	E = +.00000084	CC = +.00000084	A = +.00000084																																																																																																																																																													
					D = +.00000273				B = +.00000084	BB = +.00000084																																																																																																																																																													
					E = +.00000084				C = +.00000084																																																																																																																																																														
					E = +.00000084				D = +.00000084																																																																																																																																																														

<p>K = +8.00 N = +1</p> <p>P = +1.77777760 A = -1.38271590 B = +1.07544570 BB = +0.23098800 CC = -0.18587950 C = -0.63644575 D = +0.65057825 DD = +0.14457295 E = -0.30600530</p>	<p>K = +8.00 N = +6</p> <p>P = +0.6145876 A = -0.04795601 B = +0.03729974 BB = +0.06631065 CC = +0.05157495 C = +0.02901091 D = +0.02256404 DD = +0.04011585 E = +0.01754981</p>	<p>K = +8.00 N = +11</p> <p>P = +0.01730612 A = -0.01330631 B = +0.01034931 BB = +0.00229985 CC = -0.00834949 C = -0.00626672 D = +0.00159127 DD = +0.00139127 E = -0.00436945</p>
<p>K = +8.00 N = +2</p> <p>P = +0.39506172 AA = +0.546258177 A = +0.30727022 B = +0.23898795 BB = +0.42486746 CC = +0.39045246 C = +0.18587951 D = +0.14457295 DD = +0.25701858 E = +0.11244563</p>	<p>K = +8.00 N = +7</p> <p>P = +0.10961555 AA = -0.01896589 A = -0.05256563 B = +0.06531064 BB = +0.01473589 CC = -0.01146109 C = -0.05157494 D = +0.04011384 DD = +0.00691418 E = -0.031119965</p>	<p>K = +8.00 N = +12</p> <p>P = +0.00380180 A = +0.00295695 B = +0.00229985 BB = +0.00408863 CC = +0.00318004 C = +0.00178877 D = +0.00159127 DD = +0.00247337 E = +0.00106209</p>
<p>K = +8.00 N = +3</p> <p>P = +0.70233190 AA = -0.12139070 A = -0.54625814 B = +0.42486744 BB = +0.09441499 CC = -0.07343388 C = -0.39045245 D = +0.25701857 DD = +0.05711524 E = -0.19990333</p>	<p>K = +8.00 N = +8</p> <p>P = +0.02435902 AA = +0.03368161 A = +0.01894590 B = +0.01673570 BB = +0.02619680 CC = +0.02037529 C = +0.01146110 D = +0.00891419 DD = +0.01584765 E = +0.00693326</p>	<p>K = +8.00 N = +13</p> <p>P = +0.00675876 AA = -0.00116810 A = -0.00525681 B = +0.00408863 BB = +0.00090898 CC = -0.00070667 C = +0.00118005 D = +0.00247337 DD = +0.00054963 E = -0.00192171</p>
<p>K = +8.00 N = +4</p> <p>AA = +0.21580568 P = +0.15807376 A = +0.12139070 A = +0.12139070 B = +0.09441498 BB = +0.16704886 CC = +0.11054911 C = +0.07945387 D = +0.05711523 DD = +0.10153020 E = +0.04442298</p>	<p>K = +8.00 N = +9</p> <p>P = +0.04330491 AA = -0.00748480 A = -0.03368160 B = +0.02619680 BB = +0.00562151 CC = -0.00452784 C = -0.02037529 D = +0.01984744 DD = +0.00352165 E = +0.01232579</p>	<p>K = +8.00 N = +14</p> <p>P = +0.00150184 A = +0.00116810 B = +0.00090898 BB = +0.00161526 CC = +0.00125631 C = +0.00070667 D = +0.00054963 DD = +0.00097713 E = +0.00042749</p>
<p>K = +8.00 N = +5</p> <p>AA = -0.04795682 P = +0.27746445 A = -0.21580568 A = -0.21580568 B = +0.16704886 BB = +0.03729975 CC = -0.02901091 C = +0.15805680 D = +0.10153020 DD = +0.02256405 E = -0.07897415</p>	<p>K = +8.00 N = +10</p> <p>P = +0.00962331 AA = +0.01330631 A = +0.00748480 B = +0.00562151 BB = +0.01034935 CC = +0.00804950 C = +0.00452784 D = +0.00352165 DD = +0.00626072 E = +0.00273906</p>	<p>K = +8.00 N = +15</p> <p>P = +0.00267012 A = -0.00207576 B = +0.00161526 BB = +0.00035894 CC = -0.00027918 C = -0.00125631 D = +0.00097713 DD = +0.00021714 E = -0.00075999</p>

<p>$K = +8.00 \quad N = +16$</p> <p>AA = +.00082045 P = +.00059336 BB = +.00063812 AA = -.00002845 P = +.00016463 CC = +.00049632 A = +.00046150 A = -.00012805 C = +.00027910 B = +.00035894 B = +.00009959 D = +.00021714 D = +.00016888 CC = -.00001721 BB = +.00002213 E = +.00016888 E = +.00004686 C = +.000097746 D = +.00006024 E = +.00004686 D = +.00001338 E = +.00001338</p>	<p>$K = +8.00 \quad N = +21$</p> <p>AA = +.00082045 P = +.00059336 BB = +.00063812 AA = -.00002845 P = +.00016463 CC = +.00049632 A = +.00046150 A = -.00012805 C = +.00027910 B = +.00035894 B = +.00009959 D = +.00021714 D = +.00016888 CC = -.00001721 BB = +.00002213 E = +.00016888 E = +.00004686 C = +.000097746 D = +.00006024 E = +.00004686 D = +.00001338 E = +.00001338</p>	<p>$K = +8.00 \quad N = +26$</p> <p>AA = +.00082045 P = +.00059336 BB = +.00063812 AA = -.00002845 P = +.00016463 CC = +.00049632 A = +.00046150 A = -.00012805 C = +.00027910 B = +.00035894 B = +.00009959 D = +.00021714 D = +.00016888 CC = -.00001721 BB = +.00002213 E = +.00016888 E = +.00004686 C = +.000097746 D = +.00006024 E = +.00004686 D = +.00001338 E = +.00001338</p>
<p>$K = +8.00 \quad N = +17$</p> <p>AA = -.00016252 P = +.00105406 BB = +.00063812 AA = +.00005058 P = +.00003450 CC = -.00011029 A = +.00062045 A = +.00002845 C = +.00049632 B = +.00063812 B = +.00002213 D = +.00058602 D = +.00008578 CC = +.00003060 BB = +.00005934 E = +.00030024 E = +.00001041 C = +.00001721 D = +.00001538 E = +.00001041 D = +.00002380 E = +.00002380</p>	<p>$K = +8.00 \quad N = +22$</p> <p>AA = -.00016252 P = +.00105406 BB = +.00063812 AA = +.00005058 P = +.00003450 CC = -.00011029 A = +.00062045 A = +.00002845 C = +.00049632 B = +.00063812 B = +.00002213 D = +.00058602 D = +.00008578 CC = +.00003060 BB = +.00005934 E = +.00030024 E = +.00001041 C = +.00001721 D = +.00001538 E = +.00001041 D = +.00002380 E = +.00002380</p>	<p>$K = +8.00 \quad N = +27$</p> <p>AA = -.00016252 P = +.00105406 BB = +.00063812 AA = -.000000175 P = +.00001015 CC = -.00011029 A = +.00062045 A = -.000000175 C = +.00049632 B = +.00063812 B = +.00000614 D = +.00058602 D = +.00008578 CC = +.0000106 BB = +.00000136 E = +.00030024 E = +.00001041 C = +.00000477 D = +.00000371 E = +.00000288 D = +.00000082 E = +.00000288</p>
<p>$K = +8.00 \quad N = +18$</p> <p>AA = +.00032412 P = +.00023441 BB = +.00014280 AA = -.00001124 P = +.00006504 CC = +.00019607 A = +.00018232 A = -.00000598 C = +.00011029 B = +.00014280 B = +.00003934 D = +.00006578 D = +.00006672 CC = +.00000660 BB = +.00000874 E = +.00006672 E = +.00001851 C = +.000003060 D = +.000002880 E = +.00001851 D = +.00000520 E = +.00000520</p>	<p>$K = +8.00 \quad N = +23$</p> <p>AA = +.00032412 P = +.00023441 BB = +.00014280 AA = -.00001124 P = +.00006504 CC = +.00019607 A = +.00018232 A = -.00000598 C = +.00011029 B = +.00014280 B = +.00003934 D = +.00006578 D = +.00006672 CC = +.00000660 BB = +.00000874 E = +.00006672 E = +.00001851 C = +.000003060 D = +.000002880 E = +.00001851 D = +.00000520 E = +.00000520</p>	<p>$K = +8.00 \quad N = +28$</p> <p>AA = +.00032412 P = +.00023441 BB = +.00014280 AA = -.00001124 P = +.00006504 CC = +.00019607 A = +.00018232 A = -.00000598 C = +.00011029 B = +.00014280 B = +.00003934 D = +.00006578 D = +.00006672 CC = +.00000660 BB = +.00000874 E = +.00006672 E = +.00001851 C = +.000003060 D = +.000002880 E = +.00001851 D = +.00000520 E = +.00000520</p>
<p>$K = +8.00 \quad N = +19$</p> <p>AA = -.00007202 P = +.00041673 BB = +.00025209 BB = +.00005602 AA = +.00001998 P = +.00001445 CC = -.00004357 C = +.00019607 CC = +.00001208 A = +.00001124 D = +.00015250 D = +.00016861 D = +.00000974 B = +.000001554 E = +.00011661 E = +.000011661 E = +.00000074 BB = +.000001554 F = +.00000074 F = +.00000074 C = +.000000680 G = +.000000520 G = +.000000520 D = +.000000520 H = +.000000411 H = +.000000411 E = +.000000411</p>	<p>$K = +8.00 \quad N = +24$</p> <p>AA = -.00007202 P = +.00041673 BB = +.00025209 BB = +.00005602 AA = +.00001998 P = +.00001445 CC = -.00004357 C = +.00019607 CC = +.00001208 A = +.00001124 D = +.00015250 D = +.00016861 D = +.00000974 B = +.000001554 E = +.00011661 E = +.000011661 E = +.00000074 BB = +.000001554 F = +.00000074 F = +.00000074 C = +.000000680 G = +.000000520 G = +.000000520 D = +.000000520 H = +.000000411 H = +.000000411 E = +.000000411</p>	<p>$K = +8.00 \quad N = +29$</p> <p>AA = -.00007202 P = +.00041673 BB = +.00025209 BB = +.00005602 AA = +.00001998 P = +.00001445 CC = -.00004357 C = +.00019607 CC = +.00001208 A = +.00001124 D = +.00015250 D = +.00016861 D = +.00000974 B = +.000001554 E = +.00011661 E = +.000011661 E = +.00000074 BB = +.000001554 F = +.00000074 F = +.00000074 C = +.000000680 G = +.000000520 G = +.000000520 D = +.000000520 H = +.000000411 H = +.000000411 E = +.000000411</p>
<p>$K = +8.00 \quad N = +20$</p> <p>AA = +.00012805 P = +.00009260 BB = +.00005602 BB = +.00009959 AA = -.00000444 P = +.00002569 CC = +.00007746 C = +.00004357 CC = +.00000268 A = +.00001998 D = +.00001388 D = +.00006024 D = +.000001208 B = +.000001554 E = +.00002635 E = +.00000731 E = +.000000940 BB = +.00000345 F = +.00000731 F = +.00000731 C = +.000001208 G = +.000000940 G = +.000000940 D = +.000000208 H = +.000000731 H = +.000000731 E = +.000000208</p>	<p>$K = +8.00 \quad N = +25$</p> <p>AA = +.00012805 P = +.00009260 BB = +.00005602 BB = +.00009959 AA = -.00000444 P = +.00002569 CC = +.00007746 C = +.00004357 CC = +.00000268 A = +.00001998 D = +.00001388 D = +.00006024 D = +.000001208 B = +.000001554 E = +.00002635 E = +.00000731 E = +.000000940 BB = +.00000345 F = +.00000731 F = +.00000731 C = +.000001208 G = +.000000940 G = +.000000940 D = +.000000208 H = +.000000731 H = +.000000731 E = +.000000208</p>	<p>$K = +8.00 \quad N = +30$</p> <p>AA = +.00012805 P = +.00009260 BB = +.00005602 BB = +.00009959 AA = +.00000444 P = +.00000089 CC = +.00007746 C = +.00004357 CC = +.00000268 A = +.00001998 D = +.00001388 D = +.00006024 D = +.000001208 B = +.00000069 E = +.00002635 E = +.00000731 E = +.000000940 BB = +.00000053 F = +.00000731 F = +.00000731 C = +.000001208 G = +.000000940 G = +.000000940 D = +.000000208 CC = +.00000074 H = +.000000731 H = +.000000731 E = +.000000208 D = +.00000057 I = +.000000208 I = +.000000208 E = +.000000208</p>

$K = +8.50$	$N = +1$	$K = +8.50$	$N = +6$	$K = +8.50$	$N = +11$
AA = -.29743940	P = +1.78947360 A = +1.41274230 B = +1.11532290 C = +.08051805 D = +.69514592 E = +.54879952	AA = +.07553671 B = +C03325101 CC = +.04707966 DD = +.14654650	P = +.05346014 A = +.04221169 B = +.02630922 C = +.02077044 D = +.03716815 E = +.01639771	AA = -.00225698 B = +.00846367 C = +.0066184 D = +.00527514 E = +.00416458	P = +.01357949 A = +.01072065 B = +.00178182 C = +.00111055
$K = +8.50$	$N = +2$	$K = +8.50$	$N = +7$	$K = +8.50$	$N = +12$
AA = +.55222427	P = +.37671310 A = +.29761945 B = +.29460482 C = +.18537223 D = +.14654646 E = +.31553670	AA = -.01590246 B = +.00991151 CC = +.026158319	P = +.09567984 A = -C07553672 B = +.05963425 C = +.04707967 D = +.03716816 E = +.02994328	AA = +.00603880 B = +.00178182 C = +.00251726 D = +.00111055 E = +.00087675	P = +.00205884 A = +.00225698 B = +.00178182 C = +.00140670 D = +.00111055 E = +.00087675
$K = +8.50$	$N = +3$	$K = +8.50$	$N = +8$	$K = +8.50$	$N = +13$
AA = -.11204722	P = +.67415075 A = +.53222427 B = +.2017705 C = +.31717873 D = +.26108320 E = +.20674989	AA = +.02845703 B = +.01773637	P = +.02014311 A = +.01590246 B = +.01255457 C = +.00991150 D = +.00782487 E = +.00617753	AA = -.00085027 B = +.00318853 C = +.00251726 D = +.00198751 E = +.00156893	P = +.00511582 A = +.00405880 B = +.00318853 C = +.00251726 D = +.00198751 E = +.00156893
$K = +8.50$	$N = +4$	$K = +8.50$	$N = +9$	$K = +8.50$	$N = +14$
AA = +.20050551	P = +.14192646 A = +.11204720 B = +.08045831 C = +.06983551 D = +.05913330 E = +.04752628	AA = +.00599096 B = +.00373397	P = +.03604561 A = +.02845706 B = +.02246610 C = +.01773639 D = +.01400262 E = +.01105454	AA = +.00152154 B = +.00067127 CC = +.000946493 DD = +.00294787	P = +.00107701 A = +.00085027 B = +.00067127 C = +.00052995 D = +.00041838 E = +.00093030
$K = +8.50$	$N = +5$	$K = +8.50$	$N = +10$	$K = +8.50$	$N = +15$
AA = -.04221169	P = +.251973b7 A = +.20050553 B = +.15829384 C = +.12496882 D = +.09865959 E = +.07788915	AA = +.01072066 B = +.00666185 CC = +.02077044	P = +.00750054 A = +.00599095 B = +.00472970 C = +.00371397 D = +.00294787 E = +.00232727	AA = -.00032032 B = +.00120122 CC = +.00019964 DD = +.00527514	P = +.00192729 A = +.00152154 B = +.00120122 C = +.00094833 D = +.00074868 E = +.00059106

$K = +8.50$	$N = +18$	$K = +8.50$	$N = +21$	$K = +8.50$	$N = +26$
AA = +.00057321	P = +.00040574	AA = -.00001712	P = +.000010304	AA = +.00000434	P = +.00000307
BB = +.00025285	A = +.00032032	BB = +.00006422	A = -.00008135	BB = +.00001352	B = +.00000191
CC = +.00035726	C = +.00019964	CC = -.00001067	C = +.00005070	CC = +.00000271	C = +.00000151
DD = +.00015761	D = +.00028205	DD = +.00004003	D = +.00000842	DD = +.00000119	D = +.00000214
EE = +.00012443	E = +.00003160			E = +.00000094	
$K = +8.50$	$N = +17$	$K = +8.50$	$N = +22$	$K = +8.50$	$N = +27$
AA = -.00012067	P = +.00072607	AA = +.00003064	P = +.00002169	AA = -.00000091	P = +.00000550
BB = +.00045253	A = -.00057321	BB = +.00001352	A = +.00001712	BB = +.00002419	B = +.00000343
CC = +.00007521	C = -.00035726	CC = +.00001910	C = +.00001067	CC = +.00000057	C = +.00000271
DD = +.00028205	D = +.00005937	DD = +.00000842	D = +.000001508	DD = +.00000214	D = +.00000045
EE = +.00022267	E = +.00000665			E = +.0000168	
$K = +8.50$	$N = +18$	$K = +8.50$	$N = +23$	$K = +8.50$	$N = +28$
AA = +.00021994	P = +.00015285	AA = -.00000645	P = +.00003882	AA = +.00000163	P = +.00000115
BB = +.00012067	A = +.00012067	BB = +.00002419	A = -.00000364	BB = +.00000091	B = +.00000072
CC = +.00013459	C = +.00009527	CC = +.00000402	C = +.00001910	CC = +.00000102	C = +.00000057
DD = +.00005937	D = +.00010625	DD = +.000001508	D = +.000001190	DD = +.00000045	D = +.00000080
EE = +.00004687	E = +.00000190			E = +.0000035	
$K = +8.50$	$N = +19$	$K = +8.50$	$N = +24$	$K = +8.50$	$N = +29$
AA = -.00004546	P = +.00027353	AA = +.00001154	P = +.00000817	AA = -.00000034	P = +.00000207
BB = +.00021594	A = +.00017048	BB = +.00003589	A = +.00000845	BB = +.00000165	B = +.00000129
CC = +.00002833	C = +.00013459	CC = +.00000719	C = +.00000509	CC = +.00000021	C = +.00000102
DD = +.00010625	D = +.00002237	DD = +.00000317	D = +.000006402	DD = +.00000090	D = +.00000080
EE = +.00008388	E = +.00000250			E = +.00000063	
$K = +8.50$	$N = +20$	$K = +8.50$	$N = +25$	$K = +8.50$	$N = +30$
AA = +.00008135	P = +.00005758	AA = -.00000243	P = +.00001162	AA = +.00000061	P = +.00000043
BB = +.00004546	A = +.00003589	BB = +.00006422	A = -.00001154	BB = +.00000034	B = +.00000027
CC = +.00005070	C = +.00002833	CC = +.00000151	C = +.00000911	CC = +.00000038	C = +.00000021
DD = +.00002237	D = +.000004003	DD = +.00000568	D = +.00000719	DD = +.00000119	D = +.00000116
EE = +.00001766	E = +.00000448			E = +.00000013	

K = +9.00	M = +1	P = +1.79999980 A = -1.61999980 B = 9.1e15199990 C = -e.92159990 D = +e.73727992 E = -e.58982393	K = +9.00	M = +6	P = +e.04665599 A = +e.03732479 B = +e.02985983 C = +e.02398876 D = +e.01911029 E = +e.01526023	K = +9.00	M = +11	P = +e.01088390 A = -e.00870712 B = +e.00696570 C = -e.00557256 D = +e.00445804 E = -e.00356643
K = +9.00	M = +2	P = +e.35999998 A = +e.28799998 B = +e.22039999 C = +e.18431999 D = +e.16745999 E = +e.1796479	K = +9.00	M = +7	P = +e.00398080 A = -e.05710864 B = +e.05274721 C = -e.04299817 D = +e.03439853 E = -e.02751883	K = +9.00	M = +12	P = +e.00217670 A = +e.00174142 B = +e.00119314 C = +e.00111451 D = +e.00089160 E = +e.00071928
K = +9.00	M = +3	P = +e.65799994 A = -e.58399995 B = +e.41471995 C = +e.32177597 D = +e.28542074 E = -e.21233602	K = +9.00	M = +8	P = +e.01679616 A = +e.01543692 B = +e.01074954 C = +e.00859963 D = +e.00687970 E = +e.00550376	K = +9.00	M = +13	P = +e.00391820 A = -e.00313456 B = +e.00290765 C = +e.00280812 D = +e.00160489 E = -e.00128391
K = +9.00	M = +4	P = +e.12959999 A = +e.10367999 B = +e.08294399 C = +e.06635519 D = +e.05308419 E = +e.04246732	K = +9.00	M = +9	P = +e.03023309 A = -e.02418647 B = +e.01934918 C = -e.01547934 D = +e.01238347 E = -e.00990678	K = +9.00	M = +14	P = +e.00078164 A = +e.00062691 B = +e.00050193 C = +e.00040122 D = +e.00032097 E = +e.00025678
K = +9.00	M = +5	P = +e.23327996 A = -e.18662397 B = +e.14929917 C = +e.11149394 D = +e.09555147 E = -e.07644117	K = +9.00	M = +10	P = +e.00604661 A = +e.00583729 B = +e.00586983 C = +e.00505586 D = +e.00247669 E = +e.00198135	K = +9.00	M = +15	P = +e.00141055 A = -e.00112844 B = +e.00090275 C = -e.00072200 D = +e.00057776 E = -e.00046221

K = +9.00	N = +16	K = +9.00	N = +21	K = +9.00	N = +26
AA = +.00040623	P = +.00038211	AA = -.00001052	P = +.00006581	AA = +.00000245	P = +.00000170
A = +.00042568	A = +.00018059	B = +.00032499	A = -.00005264	A = +.00000136	
BB = +.00018059	C = +.00014444	CC = -.00000673	B = +.00004211	B = +.00000109	
CC = +.00025999	D = +.00011555	OO = +.00020799	C = +.00003569	BB = +.00000196	
E = +.00009244			D = +.00002695	CC = +.00000157	
			E = +.00002156	OO = +.0000069	
				EE = +.00000055	EE = +.00000125
K = +9.00	N = +17	K = +9.00	N = +22	K = +9.00	N = +27
AA = -.00008124	P = +.000050779	AA = +.00001895	P = +.00001316	P = +.00000307	
A = +.00040623	A = +.00032499	A = +.00001052	B = +.00000842	A = +.00000243	
BB = +.00006499	BB = +.00006499	BB = +.00001516	AA = +.00000049	B = +.00000196	
CC = +.00005199	C = +.00025999	CC = +.00001219	CC = +.00000031	BB = +.00000039	
D = +.00020799	OO = +.00004159	C = +.00000673	EE = +.00000431	CC = +.00000157	
E = +.00016339		D = +.00000539		OO = +.00000125	
		OO = +.00000970		EE = +.00000100	
K = +9.00	N = +18	K = +9.00	N = +23	K = +9.00	N = +28
AA = +.00014624	P = +.00010155	AA = +.0000379	P = +.00002369	P = +.00000061	
A = +.00008124	A = +.00006499	A = +.00001895	B = +.0000088	A = +.00000049	
BB = +.00011699	BB = +.00011699	B = +.00001516	BB = +.00000303	B = +.00000039	
CC = +.00009359	C = +.00005199	CC = +.0000242	CC = +.00000056	BB = +.00000070	
D = +.00004159	OO = +.00007487	C = +.00001213	EE = +.0000031	CC = +.00000031	
E = +.00003327		D = +.00000970		OO = +.0000025	
		OO = +.00000776		EE = +.00000020	
K = +9.00	N = +19	K = +9.00	N = +24	K = +9.00	N = +29
AA = -.00002924	P = +.00018280	AA = +.00000682	P = +.00000473	P = +.00000110	
A = +.00014624	A = +.00011699	A = +.0000379	A = +.00000545	A = +.00000088	
BB = +.00002339	BB = +.00002339	B = +.00000303	BB = +.00000545	B = +.00000070	
CC = +.00001871	C = +.00009359	CC = +.00000436	C = +.00000242	BB = +.00000014	
D = +.00007487	OO = +.00001497	O = +.00000194	O = +.00000194	C = +.00000056	
E = +.00005990		OO = +.00000349		D = +.00000045	
		E = +.00000155		OO = +.00000036	
K = +9.00	N = +20	K = +9.00	N = +25	K = +9.00	N = +30
AA = +.00005264	P = +.00003656	AA = +.00000136	P = +.00000852	P = +.00000022	
A = +.00002924	A = +.00002339	A = +.00000682	A = +.00000682	A = +.00000117	
BB = +.00002339	BB = +.00004211	B = +.00000545	BB = +.00000109	B = +.0000014	
CC = +.00003569	C = +.00001871	CC = +.00000087	C = +.00000436	BB = +.00000025	
D = +.00001497	OO = +.00002695	D = +.00000349	D = +.00000069	C = +.00000011	
E = +.00001198		E = +.00000279		D = +.00000009	
				E = +.00000007	

<p>K = +9.50 N = +1</p> <p>AA = -27901960 P = +1.00952390 A = -1.4685270 B = +1.18583310 BB = +.22587300 CC = -1.0284955 C = -0.9596010 D = +.77711055 OO = +1.4602106 E = -0.62908949</p>	<p>K = +9.50 N = +6</p> <p>AA = +.05978036 P = +.04094635 A = +.03314704 B = +.0248332 BB = +.04855559 CC = +.03930686 C = +.02172221 D = +.01798464 E = +.01423519</p>	<p>K = +9.50 N = +11</p> <p>AA = -.00135725 P = +.00880217 A = -.00712556 B = +.00578031 BB = +.00109872 CC = -.00088944 C = -.00466058 D = +.00378014 E = -.00306011</p>
<p>K = +9.50 N = +2</p> <p>AA = +.50489257 P = +.34467125 A = +.27901958 B = +.22587299 BB = +.40872255 CC = +.33087063 C = +.18284954 D = +.14602107 E = +.11982658</p>	<p>K = +9.50 N = +7</p> <p>AA = -.01142483 P = +.07489340 A = -.05998037 B = +.04855553 BB = +.00924867 CC = -.00748702 C = -.03930686 D = +.03181984 E = -.02979891</p>	<p>K = +9.50 N = +12</p> <p>AA = +.00246597 P = +.00167660 A = +.00115725 B = +.00109872 BB = +.00198017 CC = +.00146097 C = +.00086944 D = +.00072002 E = +.00058287</p>
<p>K = +9.50 N = +3</p> <p>AA = -.09617003 P = +.62369093 A = -.50489265 B = +.40872262 BB = +.07785194 CC = -.06302299 C = +.51087068 D = +.26184769 E = -.21682908</p>	<p>K = +9.50 N = +8</p> <p>AA = +.07067950 P = +.01411303 A = +.01142483 B = +.00924867 BB = +.01673569 CC = +.01354794 C = +.00748702 D = +.00806092 E = +.00490646</p>	<p>K = +9.50 N = +15</p> <p>AA = +.00046780 P = +.00303385 A = +.00198817 B = +.00160747 BB = +.00037869 CC = +.00030656 C = +.00150290 D = +.00024817 E = +.00105473</p>
<p>K = +9.50 N = +4</p> <p>AA = +.17602195 P = +1.1879827 A = +.09617002 B = +.07785192 BB = +.14087491 CC = +.11604159 C = +.08302298 D = +.05101860 E = +.04130077</p>	<p>K = +9.50 N = +9</p> <p>AA = +.00393781 P = +.02553786 A = +.02067351 B = +.01673569 BB = +.00318775 CC = +.00258056 C = +.01554794 D = +.01096738 E = +.00887835</p>	<p>K = +9.50 N = +14</p> <p>AA = +.00084650 P = +.00057787 A = +.00046780 B = +.00057869 BB = +.00068520 CC = +.00030656 C = +.00024817 D = +.00046907 E = +.00020090</p>
<p>K = +9.50 N = +5</p> <p>AA = -.03314704 P = +.21498072 A = +.17602197 B = +.14087493 BB = +.02683332 CC = +.02172222 C = +.11604161 D = +.09251939 E = +.07475474</p>	<p>K = +9.50 N = +10</p> <p>AA = +.00712556 P = +.00486435 A = +.00793781 B = +.00318775 BB = +.00576871 CC = +.00666958 C = +.00258056 D = +.00208902 E = +.00169111</p>	<p>K = +9.50 N = +15</p> <p>AA = +.00016125 P = +.00104661 A = +.00084650 B = +.00068526 BB = +.00013052 CC = +.00010566 C = +.00055473 D = +.00048037 E = +.00036353</p>

<p>K = +9.50 N = +16</p> <p>AA = +.00029176 P = +.00019917 A = +.00016123 B = +.00013052 BB = +.00023619 CC = +.00019120 C = +.00010566 D = +.00008593 DD = +.00015478 E = +.00006724</p>	<p>K = +9.50 N = +21</p> <p>AA = -.00000660 P = +CD0004281 A = -.00003466 B = +.00002805 BB = +.00000534 CC = -.00000432 C = -.00002271 D = +.00001830 DD = +.00000350 E = +.00001488</p>	<p>K = +9.50 N = +25</p> <p>AA = +.00000141 P = +.00000096 A = +.00000078 B = +.00000063 BB = +.00000114 CC = +.00000093 C = +.00000051 D = +.00000041 DD = +.00000075 E = +.00000033</p>
<p>K = +9.50 N = +17</p> <p>AA = -.00005557 P = +.00036041 A = -.00029176 B = +.00023619 BB = +.00004498 CC = -.00003641 C = +.00019120 D = +.00015476 DD = +.00002948 E = -C00012330</p>	<p>K = +9.50 N = +22</p> <p>AA = +.00001194 P = +.00000815 A = +.00000660 B = +.00000534 BB = +.00000967 CC = +.00000762 C = +.00000432 D = +.00000350 DD = +.00000633 E = +.00000283</p>	<p>K = +9.50 N = +27</p> <p>AA = -.00000027 P = +.00000174 A = -.00000141 B = +.00000114 BB = +.00000021 CC = +.00000017 C = +.00000093 D = +.00000075 DD = +.00000014 E = +.00000060</p>
<p>K = +9.50 N = +18</p> <p>AA = +.00010056 P = +.00006865 A = +.00005557 B = +.00004498 BB = +.00008140 CC = +.00006590 C = +.00003641 D = +.00002948 DD = +.00005334 E = +C00002386</p>	<p>K = +9.50 N = +23</p> <p>AA = -.00000227 P = +.00001475 A = +.00001194 B = +.00000967 BB = +.00000184 CC = -.00000149 C = +.00000782 D = +.00000633 DD = +.00000120 E = +.00000513</p>	<p>K = +9.50 N = +28</p> <p>AA = +.00000048 P = +.00000033 A = +.00000027 B = +.00000021 BB = +.00000039 CC = +.00000032 C = +.00000017 D = +.00000014 DD = +.00000025 E = +.00000011</p>
<p>K = +9.50 N = +19</p> <p>AA = -.00001915 P = +.00012422 A = +.00010056 B = +.00008540 BB = +.00001550 CC = +.00001255 C = +.00006590 D = +.00005334 DD = +.00001016 E = +.00004318</p>	<p>K = +9.50 N = +24</p> <p>AA = +.00000411 P = +.00000281 A = +.00000277 B = +.00000184 BB = +.00000333 CC = +.00000269 C = +.00000149 D = +.00000120 DD = +.00000218 E = +.00000097</p>	<p>K = +9.50 N = +29</p> <p>AA = -.00000009 P = +.00000060 A = -.00000048 B = +.00000039 BB = +.00000007 CC = +.00000006 C = +.00000032 D = +.00000025 DD = +.00000004 E = +.00000021</p>
<p>K = +9.50 N = +20</p> <p>AA = +.00003466 P = +.00002366 A = +.00001915 B = +.00001550 BB = +.00002805 CC = +.00002271 C = +.00001255 D = +.00001016 DD = +.00001838 E = +.00000822</p>	<p>K = +9.50 N = +25</p> <p>AA = -.00000078 P = +.00000090 A = -.00000411 B = +.00000333 BB = +.00000063 CC = +.00000051 C = +.00000269 D = +.00000218 DD = +.00000041 E = +.00000176</p>	<p>K = +9.50 N = +30</p> <p>AA = +.00000016 P = +.00000011 A = +.00000009 B = +.00000007 BB = +.00000013 CC = +.00000012 C = +.00000006 D = +.00000004 DD = +.00000008 E = +.00000004</p>

$K = +10.00$ $N = +1$ $AA = -0.27047330$ $CC = -0.18106063$ $BB = +.22129640$ $DD = +.081477283$ $EE = -0.66643230$ $P = +1.01818160$ $A = -1.40760310$ $B = +1.21712980$ $C = -0.99583346$ $D = +0.81477283$ $E = -0.66643230$	$K = +10.00$ $N = +6$ $AA = +.05374161$ $CC = +.03597578$ $BB = +.04597040$ $DD = +.02943473$ $E = +0.3612630$ $P = +0.02955780$ $A = +0.02418372$ $B = +0.01978660$ $C = +0.01618910$ $D = +0.01324563$	$K = +10.00$ $N = +11$ $AA = -0.00106781$ $CC = -0.00071482$ $BB = +.00480518$ $DD = +.00321669$ $EE = -0.00263183$ $P = +.00717811$ $A = -0.00587300$ $B = +.00480518$ $C = -0.00393151$ $D = +.00321669$ $E = +.00058485$
$K = +10.00$ $N = +2$ $AA = +.09176962$ $CC = +.32920114$ $BB = +.40235696$ $DD = +.26934638$ $EE = +.12120507$ $P = +.33097847$ $A = +0.27047329$ $B = +0.22129693$ $C = +0.18106063$ $D = +0.18104051$ $E = +0.12120507$	$K = +10.00$ $N = +7$ $AA = -0.00977120$ $CC = -0.00654105$ $BB = +.00799462$ $DD = +.00535177$ $E = +0.05568419$ $P = -0.0374161$ $A = +0.04397040$ $B = +0.03597578$ $C = +0.02943473$ $D = +0.02408296$	$K = +10.00$ $N = +12$ $AA = +.00194148$ $CC = +.00129967$ $BB = +.00087366$ $DD = +.00106316$ $EE = +.00047851$ $P = +.00130511$ $A = +0.00106781$ $B = +.00087366$ $C = +0.00071482$ $D = +.00058485$ $E = +.00047851$
$K = +10.00$ $N = +3$ $AA = -0.08941265$ $CC = -0.05985475$ $BB = +.07315581$ $DD = +.04897207$ $EE = +.022037420$ $P = +.60105172$ $A = -0.49176958$ $B = +0.40235643$ $C = +0.34920117$ $D = +0.26934637$ $E = +0.22037420$	$K = +10.00$ $N = +8$ $AA = +.01776582$ $CC = +.01189282$ $BB = +.01453567$ $DD = +.00535177$ $E = +0.01194258$ $P = +0.00977120$ $A = +0.00799461$ $B = +0.00654105$ $C = +0.00535177$ $D = +0.00437872$	$K = +10.00$ $N = +15$ $AA = -0.00033299$ $CC = -0.00023650$ $BB = +.000106336$ $DD = +.000193133$ $EE = -0.00087002$ $P = +.00237292$ $A = -0.00194148$ $B = +0.00158849$ $C = -0.00129967$ $D = +0.00106336$ $E = -0.00087002$
$K = +10.00$ $N = +4$ $AA = +.16256145$ $CC = +.10882681$ $BB = +.13301059$ $DD = +.08904012$ $EE = +.04006805$ $P = +0.10928213$ $A = +0.08941265$ $B = +0.07315560$ $C = +0.05985474$ $D = +0.04897206$ $E = +0.04006805$	$K = +10.00$ $N = +9$ $AA = -0.00323015$ $CC = +.00216233$ $BB = +.00264285$ $DD = +.00176818$ $E = +0.02171378$ $P = +0.01776582$ $A = +0.01453567$ $B = +0.01089282$ $C = +0.00973049$ $D = +0.00796131$	$K = +10.00$ $N = +14$ $AA = +.00061811$ $CC = +.00042964$ $BB = +.00025801$ $DD = +.00019333$ $EE = +.0001581$ $P = +.00043144$ $A = +0.00051299$ $B = +.00023630$ $C = +0.00019333$ $D = +.0001581$
$K = +10.00$ $N = +5$ $AA = -0.02953790$ $CC = -0.01978669$ $BB = +.02410374$ $DD = +.01610911$ $EE = +.07285099$ $P = +.19869476$ $A = -0.16256144$ $B = +0.13301054$ $C = -0.10882680$ $D = +0.0904011$ $E = +0.07285099$	$K = +10.00$ $N = +10$ $AA = +.00587300$ $CC = +.00393151$ $BB = +.00480518$ $DD = +.00321669$ $E = +.00394796$ $P = +0.00323015$ $A = +0.00264285$ $B = +0.00216233$ $C = +0.00176916$ $D = +0.00144751$	$K = +10.00$ $N = +15$ $AA = -0.00011689$ $CC = -0.00007811$ $BB = +.00052512$ $DD = +.00042964$ $EE = +.00028761$ $P = +.00078443$ $A = +0.00061811$ $B = +.00052512$ $C = +0.00042964$ $D = +.00035152$ $E = +.00028761$

<p>K = +10.00 N = +16</p> <p>AA = -0.00021215 P = +.000014262 A = +.00011669 B = +.00009547 BB = +.00017359 CC = +.00014203 C = +.00007811 D = +.00006391 DD = +.00011620 E = +.00005229</p>	<p>K = +10.00 N = +21</p> <p>AA = -0.00000421 P = +.00002833 A = -0.0002318 B = +.00001897 BB = +.00000364 CC = -0.00000282 C = +.00001552 D = +.00001269 DD = +.00000230 E = -0.00001039</p>	<p>K = +10.00 N = +26</p> <p>AA = +.00000083 P = +.00000056 A = +.00000046 B = +.00000037 BB = +.00000068 CC = +.00000056 C = +.00000030 D = +.00000025 DD = +.00000045 E = +.00000020</p>
<p>K = +10.00 N = +17</p> <p>AA = -0.00003857 P = +.00025931 A = +.00021216 B = +.00017359 BB = +.00003156 CC = -0.00002562 C = +.00014203 D = +.000011620 DD = +.00002112 E = +.000009507</p>	<p>K = +10.00 N = +22</p> <p>AA = +.00000766 P = +.00000515 A = +.00000421 B = +.00000344 BB = +.00000627 CC = +.00000513 C = +.00000282 D = +.00000230 DD = +.00000419 E = +.00000188</p>	<p>K = +10.00 N = +27</p> <p>AA = -0.00000015 P = +.00000102 A = -0.00000083 B = +.00000016 BB = +.00000014 CC = -0.00000010 C = +.00000056 D = +.00000045 DD = +.00000008 E = -0.00000037</p>
<p>K = +10.00 N = +18</p> <p>AA = +.000007013 P = +.00004714 A = +.000003857 B = +.000003156 BB = +.000005738 CC = +.000004695 C = +.000002562 D = +.000002112 DD = +.000003641 E = +.000001728</p>	<p>K = +10.00 N = +23</p> <p>AA = -0.00000139 P = +.00000936 A = -0.00000766 B = +.00000627 BB = +.00000114 CC = -0.00000093 C = +.00000513 D = +.00000419 DD = +.00000076 E = +.00000343</p>	<p>K = +10.00 N = +28</p> <p>AA = +.00000027 P = +.00000001 A = +.00000015 B = +.00000012 BB = +.00000022 CC = +.00000018 C = +.00000010 D = +.00000008 DD = +.00000015 E = +.00000006</p>
<p>K = +10.00 N = +19</p> <p>AA = -0.00001275 P = +.00000512 A = +.000007013 B = +.000005738 BB = +.00001043 CC = -0.00000853 C = +.00000495 D = +.000003641 DD = +.00000698 E = +.000003143</p>	<p>K = +10.00 N = +24</p> <p>AA = -0.00000253 P = +.00000170 A = +.00000139 B = +.00000114 BB = +.00000207 CC = +.00000169 C = +.00000093 D = +.00000076 DD = +.00000138 E = +.00000062</p>	<p>K = +10.00 N = +29</p> <p>AA = -0.00000005 P = +.00000033 A = -0.00000027 B = +.00000022 BB = +.00000004 CC = -0.00000003 C = +.00000018 D = +.00000015 DD = +.00000002 E = -0.00000012</p>
<p>K = +10.00 N = +20</p> <p>AA = +.00002318 P = +.00001598 A = +.00001275 B = +.00001043 BB = +.00001897 CC = +.00001552 C = +.00000953 D = +.00000698 DD = +.00001269 E = +.00000571</p>	<p>K = +10.00 N = +25</p> <p>AA = -0.00000046 P = +.00000309 A = -0.00000253 B = +.00000207 BB = +.00000037 CC = -0.00000030 C = +.00000149 D = +.00000138 DD = +.00000025 E = +.00000113</p>	<p>K = +10.00 N = +30</p> <p>AA = +.00000009 P = +.00000006 A = +.00000005 B = +.00000004 BB = +.00000007 CC = +.00000006 C = +.00000003 D = +.00000002 DD = +.00000005 E = +.00000002</p>

UNCLASSIFIED

Security Classification

DOCUMENT CONTROL DATA - R&D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author) Arnold Engineering Development Center ARO, Inc. Arnold Air Force Station, Tennessee		2a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED 2b. GROUP N/A
3. REPORT TITLE STRESS WAVES IN COMPOSITE LAMINATES		
4. DESCRIPTIVE NOTES (Type of report and inclusive dates) N/A		
5. AUTHOR(S) (Last name, first name, initial) Kinslow, Ray ARO, Inc.		
6. REPORT DATE June 1965	7a. TOTAL NO. OF PAGES 114	7b. NO. OF REFS 9
8a. CONTRACT OR GRANT NO. AF 40(600)-1000	9a. ORIGINATOR'S REPORT NUMBER(S) AEDC-TR-65-69	
b. PROJECT NO. 8871	9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report) N/A	
c. Program Element 62405364		
d. Task 887101		
10. AVAILABILITY/LIMITATION NOTICES Qualified requesters may obtain copies of this report from DDC.		
11. SUPPLEMENTARY NOTES N/A	12. SPONSORING MILITARY ACTIVITY Arnold Engineering Development Center Air Force Systems Command Arnold Air Force Station, Tennessee	
13. ABSTRACT <p>Fractures caused by stress waves resulting from hypervelocity impact are sometimes reduced, and at other times are increased, by the use of laminated materials. An analysis of some of the parameters which affect the ability of a laminated structure to resist fracture following impact has been conducted. It is shown that there are multiple reflections from the interfaces bounding any layer of material. The amplitudes of these waves attenuate very rapidly, but because their transmitted components may combine in phase with other waves, they sometimes contribute substantially to the total stress produced. It is shown that these combined waves may result in a stress much greater in the laminated material than would have been produced by the same impact on a solid target of either of the materials used; however, under other conditions, the laminate may be employed to reduce the stress to a very small value. Pressure pulse amplitudes in materials having impedance mismatch values ranging from 0.1 to 10.0 and having as many as thirty laminations are presented in both graphical and tabular form.</p>		

UNCLASSIFIED

Security Classification

16 KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
stress waves laminates impact						

INSTRUCTIONS

1. ORIGINATING ACTIVITY: Enter the name and address of the contractor, subcontractor, grantees, Department of Defense activity or other organization (corporate author) issuing the report.

2a. REPORT SECURITY CLASSIFICATION: Enter the overall security classification of the report. Indicate whether "Restricted Data" is included. Marking is to be in accordance with appropriate security regulations.

2b. GROUP: Automatic downgrading is specified in DoD Directive 5200.10 and Armed Forces Industrial Manual. Enter the group number. Also, when applicable, show that optional markings have been used for Group 3 and Group 4 as authorized.

3. REPORT TITLE: Enter the complete report title in all capital letters. Titles in all cases should be unclassified. If a meaningful title cannot be selected without classification, show title classification in all capitals in parenthesis immediately following the title.

4. DESCRIPTIVE NOTES: If appropriate, enter the type of report, e.g., interim, progress, summary, annual, or final. Give the inclusive dates when a specific reporting period is covered.

5. AUTHOR(S): Enter the name(s) of author(s) as shown on or in the report. Enter last name, first name, middle initial. If military, show rank and branch of service. The name of the principal author is an absolute minimum requirement.

6. REPORT DATE: Enter the date of the report as day, month, year, or month, year. If more than one date appears on the report, use date of publication.

7a. TOTAL NUMBER OF PAGES: The total page count should follow normal pagination procedures, i.e., enter the number of pages containing information.

7b. NUMBER OF REFERENCES: Enter the total number of references cited in the report.

8a. CONTRACT OR GRANT NUMBER: If appropriate, enter the applicable number of the contract or grant under which the report was written.

8b, 8c, & 8d. PROJECT NUMBER: Enter the appropriate military department identification, such as project number, subproject number, system numbers, task number, etc.

9a. ORIGINATOR'S REPORT NUMBER(S): Enter the official report number by which the document will be identified and controlled by the originating activity. This number must be unique to this report.

9b. OTHER REPORT NUMBER(S): If the report has been assigned any other report numbers (either by the originator or by the sponsor), also enter this number(s).

10. AVAILABILITY/LIMITATION NOTICES: Enter any limitations on further dissemination of the report, other than those

imposed by security classification, using standard statements such as:

- (1) "Qualified requesters may obtain copies of this report from DDC."
- (2) "Foreign announcement and dissemination of this report by DDC is not authorized."
- (3) "U. S. Government agencies may obtain copies of this report directly from DDC. Other qualified DDC users shall request through _____."
- (4) "U. S. military agencies may obtain copies of this report directly from DDC. Other qualified users shall request through _____."
- (5) "All distribution of this report is controlled. Qualified DDC users shall request through _____."

If the report has been furnished to the Office of Technical Services, Department of Commerce, for sale to the public, indicate this fact and enter the price, if known.

11. SUPPLEMENTARY NOTES: Use for additional explanatory notes.

12. SPONSORING MILITARY ACTIVITY: Enter the name of the departmental project office or laboratory sponsoring (paying for) the research and development. Include address.

13. ABSTRACT: Enter an abstract giving a brief and factual summary of the document indicative of the report, even though it may also appear elsewhere in the body of the technical report. If additional space is required, a continuation sheet shall be attached.

It is highly desirable that the abstract of classified reports be unclassified. Each paragraph of the abstract shall end with an indication of the military security classification of the information in the paragraph, represented as (TS), (S), (C), or (U).

There is no limitation on the length of the abstract. However, the suggested length is from 150 to 225 words.

14. KEY WORDS: Key words are technically meaningful terms or short phrases that characterize a report and may be used as index entries for cataloging the report. Key words must be selected so that no security classification is required. Identifiers, such as equipment model designation, trade name, military project code name, geographic location, may be used as key words but will be followed by an indication of technical context. The assignment of links, rules, and weights is optional.

UNCLASSIFIED

Security Classification